

									H0616: 3, L0665: 3, L0794: 2, L0659: 2, L0779: 2, H0423: 2, H0171: 1, H0685: 1, H0675: 1, S0408: 1, H0013: 1, L0105: 1, H0581: 1, T0110: 1, S0214: 1, H0622: 1, H0561: 1, S0002: 1, H0529: 1, L0762: 1, L0667: 1, L0766: 1, L0805: 1, L0655: 1, L0658: 1, L0790: 1, H0702: 1, H0648: 1, H0521: 1, L0748: 1, L0777: 1, L0758: 1 and L0366: 1.			
HACNE40	HACNE40R	990	229 - 426	3165								
HACNF21	HACNF21R	991	3 - 542	3166	Asp-30 to Thr-37, Lys-81 to Glu-87.							
HACNF41	HACNF41R	992	2 - 91	3167	Ile-13 to Gly-18.							
HACNI47	HACNI47R	993	39 - 500	3168	Val-23 to Lys-30, Tyr-40 to Asn-50, Lys-63 to Lys-68, Leu-92 to Asn-102.	AR089: 18, AR060: 15, AR104: 14, AR096: 9, AR055: 6, AR061: 4						
HACNI86	HACNI86R	994	239 - 370	3169		L0754: 12, L0740: 8, L0731: 8, S0003: 6, L0649: 6, H0620: 5, S0214: 5, L0766: 5,						

1001



1002

HADDD29	HADDD29R	995	181 - 342	3170	Asn-14 to Thr-26.	H0539: 1, H0710: 1, S0152: 1, H0522: 1, H0696: 1, S0044: 1, S0406: 1, H0478: 1, L0756: 1, L0753: 1, S0031: 1, H0595: 1, S0434: 1, L0592: 1, S0011: 1, H0653: 1, S0192: 1, S0242: 1, H0542: 1, H0543: 1 and H0422: 1.		
HADET44	HADET44R	996	2 - 304	3171				
HAHGU75	HAHGU75R	997	1 - 501	3172				
HAHHD12	HAHHD12R	998	1 - 96	3173	Leu-3 to Met-9, Gln-24 to Thr-32.			
HALSG11	HALSG11R	999	2 - 364	3174	Ser-25 to Cys-36, Gln-39 to Asp-56.			
HANGA96	HANGA96R	1000	40 - 246	3175	Asn-49 to Asp-54.			
HAOSA43	HAOSA43R	1001	61 - 222	3176		L0759: 8, S0010: 7, L0742: 7, L0455: 6, S0007: 5, L0809: 4, L0439: 4, H0013: 3, L0768: 3, L0753: 3, H0686: 2, S0134: 2, S0222: 2, H0052: 2, H0024: 2, L0769: 2, L0638: 2, L0521: 2, L0794: 2, L0438: 2, L0589: 2, L0608: 2.		

1004

							H0650: 1, H0657: 1, S0116: 1, H0341: 1, S0442: 1, S0376: 1, S0444: 1, H0619: 1, L0717: 1, H0411: 1, S0222: 1, H0587: 1, H0497: 1, H0427: 1, H0042: 1, H0596: 1, T0110: 1, H0081: 1, H0050: 1, H0687: 1, S0003: 1, H0252: 1, H0213: 1, H0163: 1, H0591: 1, H0634: 1, H0616: 1, H0063: 1, H0413: 1, H0100: 1, H0529: 1, L0638: 1, L0637: 1, L0800: 1, L0764: 1, L0773: 1, L0521: 1, L0768: 1, L0784: 1, L0783: 1, L0788: 1, L0790: 1, L0664: 1, H0436: 1, S0392: 1, H0627: 1, L0748: 1, L0754: 1, L0749: 1, L0759: 1, H0445: 1, S0434: 1, H0423: 1, S0412: 1 and S0424: 1.				
HAOSE70	HAOSE70R	1004	85 - 273	3179							
HAOSF68	HAOSF68R	1005	1 - 630	3180							

HAOSG95	HAOSG95R	1006	51 - 485	3181	Arg-5 to Arg-17, Asp-25 to Val-31.			
HAOSI79	HAOSI79R	1007	1 - 543	3182	Val-7 to Glu-13, Thr-20 to Arg-26, Lys-34 to Phe-40, Arg-46 to Lys-51.			
HAOSJ27	HAOSJ27R	1008	2 - 166	3183	Lys-27 to Gln-39, Gln-47 to Thr-52.			
HAOSJ33	HAOSJ33R	1009	3 - 353	3184	Leu-3 to Glu-14, Ser-95 to Ala-105.			
HAOSJ73	HAOSJ73R	1010	1 - 114	3185				
HAOSK38	HAOSK38R	1011	1 - 303	3186	Pro-24 to Val-49, Tyr-51 to Leu-56.	H0585: 27, H0556: 17, L0595: 15, L0591: 13, L0593: 13, H0046: 12, H0543: 12, H0521: 11, L0747: 11, L0596: 11, H0265: 10, H0040: 10, H0266: 9, H0038: 9, H0494: 9, L0588: 9, H0656: 8, H0581: 8, H0617: 8, L0664: 8, H0519: 8, L0601: 8, L0163: 7, H0083: 7, H0529: 7, L0665: 7, L0602: 7, H0657: 6, H0599: 6, H0618: 6, H0318: 6, H0551: 6, L0666: 6, H0547: 6, H0542: 6, H0141: 5, H0402: 5, S0358: 5,		

S0360: 5, S0046: 5, H0013: 5, H0052: 5, H0616: 5, H0087: 5, H0264: 5, T0041: 5, T0042: 5, S0440: 5, L0662: 5, L0774: 5, L0783: 5, L0748: 5, L0751: 5, L0758: 5, H0445: 5, L0599: 5, L0608: 5, H0341: 4, S0420: 4, S0354: 4, H0619: 4, S0222: 4, H0039: 4, H0213: 4, H0560: 4, L0521: 4, L0663: 4, L0565: 4, L0750: 4, L0752: 4, L0362: 4, L0615: 3, H0686: 3, H0650: 3, S0356: 3, S0045: 3, H0438: 3, H0575: 3, H0253: 3, S0010: 3, H0251: 3, H0123: 3, T0023: 3, L0456: 3, H0124: 3, H0561: 3, H0509: 3, H0641: 3, H0646: 3, L0598: 3, . L0646: 3, L0768: 3, L0655: 3, H0144: 3, H0689: 3, H0659: 3, H0666: 3, S0152: 3,
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1009



1010

1011

1012

HAOSL47	HAOSL47R	1013	2 - 409	3188	Thr-12 to Thr-17, Leu-31 to Met-36, Pro-97 to Lys-103, Gln-126 to Trp-136.	H0056: 1, H0623: 1, L0564: 1, T0041: 1, S0150: 1, H0633: 1, S0144: 1, H0538: 1, S0210: 1, S0002: 1, L0369: 1, L0506: 1, L0500: 1, L0501: 1, L0646: 1, L0374: 1, L0765: 1, L0363: 1, L0381: 1, L0803: 1, L0653: 1, L0493: 1, L0526: 1, L0783: 1, L0383: 1, L0666: 1, L0663: 1, S0006: 1, H0593: 1, S0126: 1, H0711: 1, H0682: 1, H0670: 1, H0672: 1, H0651: 1, S0152: 1, S0454: 1, S0262: 1, L0356: 1, S0390: 1, L0747: 1, L0780: 1, L0753: 1, L0755: 1, L0757: 1, H0707: 1, L0485: 1, L0599: 1, L0608: 1, L0601: 1, H0667: 1 and H0008: 1.		
						L0748: 23, S0358: 12, H0616: 10, L0750: 8, L0752: 8, L0596: 8, H0031: 7, H0494: 7,		

1014

				H0036: 2, H0318: 2, H0545: 2, H0009: 2, H0178: 2, H0014: 2, H0644: 2, H0617: 2, H0032: 2, H0124: 2, H0068: 2, H0040: 2, T0067: 2, H0413: 2, H0623: 2, T0041: 2, T0042: 2, S0440: 2, S0150: 2, H0641: 2, H0529: 2, L0502: 2, L0500: 2, L0761: 2, L0764: 2, L0662: 2, L0767: 2, L0776: 2, L0657: 2, L0659: 2, L0782: 2, L0783: 2, H0690: 2, H0659: 2, H0672: 2, S0328: 2, H0134: 2, H0555: 2, S3012: 2, L0754: 2, L0759: 2, L0590: 2, L0592: 2, L0593: 2, L0594: 2, H0265: 1, T0002: 1, H0686: 1, S0040: 1, S0134: 1, H0583: 1, H0657: 1, H0341: 1, S0180: 1, H0483: 1, H0661: 1, H0664: 1, S0356: 1, S0442: 1, S0376: 1,
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1016

1017



HAOSS30	HAOSS30R	1015	3 - 509	3190	Pro-11 to His-21, Glu-30 to Glu-41, Arg-55 to Ser-64, Arg-89 to Thr-96, Cys-99 to Gln-106, Pro-116 to His-124.	L0439: 16, S0222: 5, H0733: 4, L0770: 4, L0809: 4, L0747: 4, S0356: 3, L0471: 3, S0366: 3, L0766: 3, S0436: 3, H0556: 2, L0622: 2, H0373: 2, S6028: 2, H0266: 2, H0687: 2, H0617: 2, L0637: 2, L0803: 2, L0789: 2, H0518: 2, L0748: 2, S0434: 2, L0604: 2, H0686: 1, S0040: 1, H0583: 1, S0001: 1, S0420: 1, H0729: 1, H0722: 1, H0619: 1, H0333: 1, H0318: 1, H0007: 1, H0052: 1, H0009: 1, L0163: 1, H0051: 1, H0428: 1, H0181: 1, S0364: 1, H0708: 1, H0135: 1, H0413: 1, S0440: 1, L5575: 1, L0764: 1, L0375: 1, L0378: 1, L0652: 1, L0438: 1, S0126: 1, H0658: 1, H0539: 1, L0740: 1, L0749: 1, L0779: 1, L0752: 1 and		
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HAOSU85	HAOSU85R	1016	2 - 508	3191	His-1 to Phe-7, Pro-16 to His-26, Asp-44 to Ser-52.	L0758: 1. H0686: 2, L0362: 2, H0100: 1, H0646: 1 and L0766: 1.			
HAOSW92	HAOSW92R	1017	93 - 317	3192		L0777: 8, L0754: 6, L0662: 4, L0766: 4, S0136: 3, S0406: 2, L0744: 2, L0780: 2, L0752: 2, L0594: 2, H0556: 1, H0686: 1, S0418: 1, S0376: 1, S0360: 1, H0580: 1, H0587: 1, H0486: 1, S0280: 1, L0021: 1, L0105: 1, H0428: 1, L0055: 1, H0212: 1, H0040: 1, S0422: 1, L0639: 1, L5575: 1, L0772: 1, L0372: 1, L0764: 1, L0794: 1, L0522: 1, L0803: 1, L0659: 1, L0529: 1, L0665: 1, H0144: 1, H0547: 1, H0519: 1, H0684: 1, H0659: 1, H0670: 1, L0748: 1, L0756: 1, L0757: 1, L0758: 1, L0759: 1, L0596: 1, L0589: 1, L0605: 1, L0599: 1,			

HAOTB47	HAOTB47R	1018	3 - 107	3193			H0667: 1, H0542: 1 and H0506: 1.		
HAOTB58	HAOTB58R	1019	336 - 485	3194	Ile-3 to Asp-9.		L0756: 6, L0777: 6, S0408: 5, L0770: 5, H0547: 5, S0360: 4, L0665: 4, H0624: 3, H0687: 3, H0170: 2, H0686: 2, L0717: 2, H0497: 2, L0163: 2, L0794: 2, L0766: 2, S0126: 2, L0752: 2, L0731: 2, H0657: 1, H0656: 1, L0808: 1, H0341: 1, S0282: 1, S0442: 1, S0354: 1, S0045: 1, S0222: 1, H0486: 1, L0586: 1, H0156: 1, H0575: 1, H0318: 1, H0581: 1, H0052: 1, L0738: 1, H0266: 1, H0553: 1, H0169: 1, S0036: 1, H0087: 1, H0413: 1, S0422: 1, L0598: 1, L0520: 1, L0763: 1, L0638: 1, L0764: 1, L0803: 1, L0776: 1, L0658: 1, L0659: 1, L0809: 1, L0789: 1,		

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L0806: 4, L0754: 4, L0779: 4, L0596: 4, L0588: 4, L0581: 4, L0603: 4, H0556: 3, H0431: 3, H0370: 3, S0010: 3, H0596: 3, S0388: 3, T0023: 3, H0031: 3, H0264: 3, L0564: 3, S0372: 3, L0769: 3, L0667: 3, L0521: 3, L0768: 3, L0774: 3, L0657: 3, L0783: 3, L0809: 3, L0663: 3, S0126: 3, S0122: 3, H0682: 3, L0759: 3, L0591: 3, H0352: 3, L0353: 2, H0686: 2, S0040: 2, H0295: 2, H0650: 2, S0045: 2, S0046: 2, S0132: 2, H0549: 2, S0222: 2, H0427: 2, H0156: 2, H0263: 2, H0597: 2, H0546: 2, H0046: 2, H0050: 2, H0024: 2, T0010: 2, H0375: 2, H0266: 2, H0271: 2, H0030: 2, H0553: 2, H0644: 2, H0674: 2, H0135: 2,
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HAOTE06	HAOTE06R	1021	2 - 472	3196				H0529: 1, L0762: 1, L0646: 1, L0800: 1, L0771: 1, L0773: 1, L0388: 1, L0650: 1, L0378: 1, L0805: 1, L0653: 1, L0527: 1, L0558: 1, L0636: 1, L0526: 1, L0647: 1, L0367: 1, L0787: 1, L0788: 1, H0144: 1, H0691: 1, H0520: 1, H0519: 1, H0365: 1, H0435: 1, H0658: 1, S0380: 1, H0521: 1, H0696: 1, S0044: 1, H0436: 1, S3012: 1, L0786: 1, L0780: 1, L0755: 1, S0260: 1, H0444: 1, H0343: 1, H0595: 1, S0436: 1, L0480: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1 and S0196: 1. L0803: 9, L0794: 8, L0740: 5, L0748: 4, L0439: 4, L0747: 4, L0438: 3, L0779: 3, L0758: 3, H0553: 2, L0646: 2, L0800: 2, L0804: 2, L0809: 2;		
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1026

				L0747: 3, L0779: 3, L0777: 3, L0755: 3, H0686: 2, S0420: 2, H0545: 2, L0471: 2, H0673: 2, L0598: 2, L0646: 2, L0794: 2, L0806: 2, H0520: 2, S0330: 2, H0436: 2, L0740: 2, L0751: 2, L0756: 2, L0599: 2, S0011: 2, S0242: 2, H0170: 1, L0002: 1, L0808: 1, S0418: 1, S0444: 1, L0717: 1, H0587: 1, H0497: 1, H0333: 1, H0632: 1, T0039: 1, H0013: 1, H0250: 1, L0021: 1, H0052: 1, S0051: 1, H0188: 1, S0003: 1, S0022: 1, S0214: 1, H0428: 1, H0031: 1, H0628: 1, S0438: 1, S0440: 1, H0647: 1, L0763: 1, L0764: 1, L0771: 1, L0648: 1, L0649: 1, L0651: 1, L0805: 1, L0652: 1, L0655: 1, L0606: 1, L0634: 1, L0542: 1,			
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1028

1029

1030

L0603: 4, H0556: 3, H0431: 3, H0370: 3, S0010: 3, H0596: 3, S0388: 3, T0023: 3, H0031: 3, H0264: 3, L0564: 3, S0372: 3, L0769: 3, L0667: 3, L0521: 3, L0768: 3, L0774: 3, L0657: 3, L0783: 3, L0809: 3, L0663: 3, S0126: 3, S0122: 3, H0682: 3, L0759: 3, L0591: 3, H0352: 3, L0353: 2, H0686: 2, S0040: 2, H0295: 2, H0650: 2, S0045: 2, S0046: 2, S0132: 2, H0549: 2, S0222: 2, H0427: 2, H0156: 2, H0263: 2, H0597: 2, H0546: 2, H0046: 2, H0050: 2, H0024: 2, T0010: 2, H0375: 2, H0266: 2, H0271: 2, H0030: 2, H0553: 2, H0644: 2, H0674: 2, H0135: 2, H0591: 2, H0616: 2, H0412: 2, H0413: 2, H0059: 2, H0100: 2,					
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1032

1033



									L0388: 1, L0650: 1, L0378: 1, L0805: 1, L0653: 1, L0527: 1, L0558: 1, L0636: 1, L0526: 1, L0647: 1, L0367: 1, L0787: 1, L0788: 1, H0144: 1, H0691: 1, H0520: 1, H0519: 1, H0365: 1, H0435: 1, H0658: 1, S0380: 1, H0521: 1, H0696: 1, S0044: 1, H0436: 1, S3012: 1, L0786: 1, L0780: 1, L0755: 1, S0260: 1, H0444: 1, H0343: 1, H0595: 1, S0436: 1, L0480: 1, L0605: 1, L0608: 1, L0362: 1, L0366: 1 and S0196: 1.			
HAOTH28	HAOTH28R	1025	33 - 164	3200								
HAOTI07	HAOTI07R	1026	3 - 398	3201	Pro-1 to Arg-6, Met-12 to Ser-21.							
HAOTT79	HAOTT79R	1027	3 - 392	3202								
HAOTU79	HAOTU79R	1028	15 - 455	3203								
HAOTW22	HAOTW22R	1029	1 - 201	3204	Ser-35 to Ser-41, Ile-50 to Gly-55.							
HAOTW30	HAOTW30R	1030	376 - 564	3205	Arg-1 to Gly-7.							
HAOTW65	HAOTW65R	1031	113 - 475	3206					H0686: 2 and S0358: 1.			

HAPNK45	HAPNK45R	1032	68 - 232	3207				
HAPPR43	HAPPR43R	1033	200 - 313	3208	Lys-1 to Ser-6, Ala-26 to Thr-31.			
HAPQO14	HAPQO14R	1034	5 - 193	3209	Ser-1 to Pro-11.			
HAQML40	HAQML40R	1035	1 - 258	3210				
HASME85	HASME85R	1036	208 - 396	3211				
HAUAK54	HAUAK54R	1037	3 - 299	3212				
HAVMB46	HAVMB46R	1038	84 - 203	3213	Ser-13 to Arg-19, Ile-28 to Asn-33.			
HAVMW69	HAVMW69R	1039	3 - 116	3214		L0439: 2, L0755: 2, S0412: 2, H0170: 1, H0497: 1, H0591: 1, H0038: 1, L0641: 1, L0774: 1, L0651: 1, L0776: 1, L4501: 1, L0666: 1, L0663: 1, H0144: 1, L0438: 1, S0126: 1, H0659: 1, H0648: 1, L0602: 1, L0748: 1, L0749: 1, L0750: 1, L0756: 1, L0752: 1, L0759: 1, L0599: 1 and L0362: 1.		
HAVNQ92	HAVNQ92R A	1040	1 - 165	3215	Ala-19 to Arg-24.			
HAVOJ11	HAVOJ11R	1041	108 - 239	3216	Gly-1 to Thr-12, Glu-23 to Lys-38.			
HAZAC68	HAZAC68R	1042	3 - 587	3217	Ser-119 to Lys-124.			
HAZAD13	HAZAD13R	1043	2 - 517	3218	Lys-32 to Arg-40.			

						Ser-54 to Gly-59, Glu-133 to Ala-147, Gln-153 to Gln-164.				
HAZAD40	HAZAD40R	1044	191 - 445	3219		Val-9 to Gly-24.				S0360: 1, H0486: 1, L0761: 1, L0803: 1, L0774: 1, L0666: 1, L0663: 1, L0665: 1, H0520: 1, H0690: 1, H0435: 1 and L0747: 1.
HAZAE44	HAZAE44R	1045	3 - 512	3220						
HAZAG23	HAZAG23R	1046	2 - 466	3221		Gln-12 to Thr-20, Cys-39 to Asn-45, Thr-60 to Gly-66, Lys-99 to Asp-106, Asp-119 to Pro-127.				H0424: 16, S0380: 13, L0748: 13, L0750: 12, S0440: 10, S0444: 9, L0755: 9, L0758: 9, S0192: 9, H0484: 8, S0358: 8, H0545: 8, L0809: 8, L0747: 8, L0749: 8, S0360: 7, S0410: 7, S0406: 7, L0752: 7, L0766: 6, S0374: 6, L0751: 6, L0754: 6, H0423: 6, S0442: 5, H0672: 5, S0378: 5, S0404: 5, L0759: 5, H0556: 4, S0356: 4, S0376: 4, H0546: 4, H0150: 4, S0438: 4, L0775: 4, L0776: 4, L0518: 4, S0328: 4, L0740: 4,

	S0434: 4, L0599: 4, H0422: 4, H0685: 3, S0116: 3, H0483: 3, H0638: 3, H0486: 3, H0318: 3, H0309: 3, H0597: 3, H0617: 3, H0494: 3, S0144: 3, L0771: 3, L0767: 3, L0768: 3, L0794: 3, L0774: 3, L0806: 3, L0783: 3, L0528: 3, H0593: 3, S0126: 3, H0690: 3, H0658: 3, H0670: 3, S0330: 3, H0696: 3, S0028: 3, L0742: 3, L0439: 3, L0731: 3, L0757: 3, H0543: 3, H0149: 2, S0218: 2, H0341: 2, H0306: 2, H0402: 2, S0420: 2, H0722: 2, S0476: 2, H0392: 2, H0333: 2, H0101: 2, H0581: 2, H0421: 2, H0204: 2, H0231: 2, H0009: 2, H0023: 2, H0024: 2, H0271: 2, H0031: 2, H0644: 2, H0166: 2, H0124: 2, H0068: 2, H0616: 2,	
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							L0521: 1, L0662: 1, L0364: 1, L5564: 1, L0378: 1, L0655: 1, L0379: 1, L0656: 1, L0659: 1, L0540: 1, L0526: 1, L0384: 1, L0544: 1, L0541: 1, L0789: 1, L0793: 1, L0666: 1, L0664: 1, L0665: 1, H0726: 1, H0547: 1, H0683: 1, H0651: 1, H0539: 1, H0518: 1, S0350: 1, H0555: 1, H0576: 1, H0627: 1, S3014: 1, S0027: 1, S0032: 1, L0756: 1, L0786: 1, L0777: 1, L0753: 1, H0445: 1, L0591: 1, L0592: 1, L0608: 1 and L0603: 1.			
HAZAG92	HAZAG92R	1047	282 - 467	3222	Pro-48 to Gly-59.					
HAZAH79	HAZAH79R	1048	138 - 515	3223	Gly-2 to Ser-9, Pro-46 to Cys-60, Pro-62 to His-69, Pro-81 to Thr-91, Ala-96 to Ser-101.					
HAZAI23	HAZAI23R	1049	1 - 165	3224	Lys-11 to Ser-16, Arg-20 to Glu-28.	L0747: 21, L0748: 18, L0750: 15, S0408: 11, L0771: 10, L0775: 9.				

L0742: 8, S0410: 6, L0756: 6, L0752: 6, L0758: 6, L0731: 5, H0341: 4, L0766: 4, L0803: 4, L0776: 4, S0126: 4, H0170: 3, H0486: 3, S0346: 3, H0204: 3, H0545: 3, L0471: 3, S0440: 3, L0769: 3, L0772: 3, L0804: 3, H0214: 3, S0404: 3, L0744: 3, L0754: 3, L0757: 3, H0506: 3, H0171: 2, H0685: 2, S0420: 2, S0356: 2, S0358: 2, S0045: 2, H0587: 2, H0069: 2, L0021: 2, H0575: 2, T0048: 2, H0318: 2, H0581: 2, H0597: 2, H0009: 2, H0014: 2, H0510: 2, H0622: 2, H0031: 2, S0364: 2, H0591: 2, H0056: 2, H0494: 2, S0438: 2, L0770: 2, L0761: 2, L0521: 2, L0649: 2, L0650: 2, L0526: 2, L0792: 2, L0666: 2, L0665: 2
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	H0690: 2, H0522: 2, H0134: 2, L0743: 2, L0740: 2, L0759: 2, L0587: 2, H0422: 2, H0624: 1, T0002: 1, H0294: 1, H0657: 1, H0484: 1, H0255: 1, H0661: 1, H0664: 1, H0176: 1, H0402: 1, S0442: 1, S0376: 1, H0637: 1, S0046: 1, S0476: 1, H0393: 1, L0717: 1, H0351: 1, S0278: 1, S0222: 1, H0392: 1, H0438: 1, H0331: 1, L0622: 1, H0635: 1, S0182: 1, S0474: 1, H0173: 1, H0052: 1, H0596: 1, H0327: 1, H0546: 1, H0150: 1, H0565: 1, H0123: 1, H0081: 1, H0051: 1, S0051: 1, H0083: 1, H0594: 1, H0028: 1, S0214: 1, H0252: 1, H0428: 1, H0213: 1, H0644: 1, H0617: 1, H0163: 1, H0090: 1, H0616: 1, H0087: 1, H0488: 1.
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S0376: 3, S0440: 3, S0374: 3, H0521: 3, S0040: 2, S0418: 2, S0444: 2, H0580: 2, H0486: 2, H0575: 2, L0471: 2, H0024: 2, H0553: 2, L0637: 2, S0126: 2, S0406: 2, S0028: 2, L0748: 2, L0754: 2, L0757: 2, S0434: 2, L0590: 2, S0242: 2, H0686: 1, H0685: 1, H0664: 1, S0420: 1, L0005: 1, S0360: 1, S0408: 1, S0045: 1, S0476: 1, S0278: 1, H0357: 1, H0586: 1, T0039: 1, H0635: 1, H0427: 1, L0022: 1, H0004: 1, H0505: 1, S0049: 1, H0251: 1, H0263: 1, T0003: 1, H0373: 1, H0051: 1, H0356: 1, H0622: 1, H0644: 1, H0090: 1, H0412: 1, H0623: 1, H0560: 1, H0641: 1, H0633: 1, S0142: 1, S0208: 1, L0773: 1, L0521: 1,					
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HAZAI89	HAZAI89R	1051	3 - 260	3226	Ser-54 to Ser-60, Ile-69 to Gly-74.				
HAZAJ72	HAZAJ72R	1052	1 - 612	3227	Ala-17 to Asp-36, Thr-56 to Met-61.	S0420: 2, H0575: 2, S0418: 1, L0005: 1, S0356: 1, H0619: 1, H0097: 1, H0581: 1, H0012: 1, H0373: 1, H0266: 1, S0250: 1, T0042: 1, H0625: 1, H0561: 1, S0438: 1, S0150: 1, H0641: 1, S0210: 1, H0693: 1, H0519: 1, H0690: 1, L0748: 1 and H0653: 1.			

HAZAQ80	HAZAQ80R	1053	27 - 389	3228	Thr-41 to Lys-46, Thr-53 to Gly-59, Ala-77 to Asp-84.			
HAZAW22	HAZAW22R	1054	2 - 172	3229	Ser-1 to Leu-14, Glu-39 to Thr-47.	L0748: 31, L0747: 18, L0752: 17, L0758: 17, L0777: 15, L0766: 13, H0014: 9, L0776: 9, L0751: 9, L0740: 7, L0779: 7, L0754: 6, H0040: 5, L0769: 5, S0330: 5, L0439: 5, L0756: 5, L0599: 5, S0356: 4, H0587: 4, H0622: 4, L0783: 4, L0744: 4, L0745: 4, L0749: 4, L0755: 4, S0031: 4, H0624: 3, S0222: 3, H0156: 3, S0010: 3, S0049: 3, S0051: 3, S0003: 3, H0591: 3, H0038: 3, L0763: 3, L0770: 3, L0662: 3, L0551: 3, L0803: 3, L0664: 3, H0144: 3, H0547: 3, H0521: 3, L0757: 3, L0759: 3, L0596: 3, L0608: 3, L0595: 3, S0114: 2, S0116: 2, H0341: 2, S0418: 2,		

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HAZBH84	HAZBH84R	1055	225 - 359	3230				H0690: 1, H0660: 1, S0136: 1, H0522: 1, S0406: 1, H0555: 1, S3012: 1, S0027: 1, S0028: 1, L0743: 1, L0750: 1, L0604: 1, L0361: 1, S0026: 1, H0653: 1, S0192: 1, S0196: 1, H0542: 1, H0423: 1, S0412: 1 and S0424: 1.		
HAZBH84	HAZBH84R	1055	225 - 359	3230				S0003: 154, S0214: 41, H0545: 38, L0651: 34, H0546: 17, L0747: 15, L0757: 14, L0731: 10, L0659: 7, L0776: 6, L0749: 6, H0544: 5, S0122: 5, H0365: 5, L0740: 5, S0360: 4, L0771: 4, L0662: 4, L0768: 4, H0150: 3, H0169: 3, L0750: 3, L0779: 3, H0661: 2, S0376: 2, H0163: 2, S0144: 2, L0764: 2, L0766: 2, L0649: 2, L0775: 2, L0653: 2, L0666: 2, S0126: 2, L0754: 2, L0759: 2, H0171: 1, H0419: 1,		



HAZBI39	HAZBI39R	1056	56 - 424	3231	Ser-29 to Ile-39, Gly-42 to Trp-48, Lys-82 to Val-92.	H0411: 1, H0357: 1, H0486: 1, L0021: 1, H0309: 1, H0231: 1, L0738: 1, H0099: 1, H0364: 1, H0039: 1, S0366: 1, H0038: 1, S0142: 1, S0002: 1, L0762: 1, L0640: 1, L0763: 1, L0637: 1, L0646: 1, L0773: 1, L0523: 1, L0655: 1, L0379: 1, L0783: 1, L0663: 1, L0664: 1, L0565: 1, S0008: 1, H0690: 1, S0328: 1, H0696: 1, L0755: 1, L0758: 1, H0595: 1 and H0506: 1.		
					L0758: 3, H0068: 2, L0749: 2, L0756: 2, L0731: 2, S0026: 2, H0136: 2, S0040: 1, L0005: 1, H0351: 1, H0318: 1, H0052: 1, H0530: 1, H0266: 1, S0003: 1, H0412: 1, T0004: 1, T0042: 1, S0422: 1, H0529: 1, H0517: 1, L0762: 1, L0763: 1, L0770: 1.			

							L0769: 1, L0766: 1, L0775: 1, L0809: 1, H0698: 1, H0690: 1, S0390: 1, S0028: 1, L0742: 1, L0748: 1, L0747: 1, L0779: 1, L0752: 1, L0755: 1, L0759: 1, S0308: 1, H0542: 1, H0543: 1 and H0423: 1.			
HAZBJ69	HAZBJ69R	1057	3 - 323	3232		Gly-1 to Pro-6, Lys-58 to Asn-71.				
HBAGS73	HBAGS73R	1058	207 - 371	3233		Pro-15 to Thr-22, Lys-28 to Arg-35.				
HBBE13	HBBE13R	1059	2 - 199	3234						
HBCPI58	HBCPI58RA	1060	3 - 245	3235						
HBJAC26	HBJAC26R	1061	267 - 446	3236			L0665: 3, H0318: 2, L0659: 2, S0330: 2, L0439: 2, L0599: 2, H0583: 1, H0038: 1, L0761: 1, L0771: 1, L0387: 1, L0655: 1, L0666: 1, L0779: 1, L0777: 1, L0758: 1 and L0608: 1.			
HBJFS85	HBJFS85R	1062	94 - 261	3237		Asn-30 to Ile-35.				
HBJHY72	HBJHY72RP 00B	1063	1 - 297	3238		Gly-1 to Pro-38, Leu-45 to Gly-64.	AR052: 12, AR055: 8, AR053: 8, AR033: 6, AR089: 6, AR061: 6, AR060: 5, AR096: 3,			

					AR104: 1, AR039: 0 L0794: 5, L0766: 3, L0759: 3, S0212: 2, H0318: 2, L0803: 2, L0804: 2, L0378: 2, L0665: 2, L0438: 2, L0439: 2, L0749: 2, L0591: 2, L0599: 2, L0362: 2, H0686: 1, S0342: 1, S0134: 1, H0656: 1, H0669: 1, S0358: 1, H0370: 1, H0069: 1, S0346: 1, H0251: 1, H0050: 1, H0373: 1, H0266: 1, S0022: 1, L0483: 1, H0553: 1, H0163: 1, H0090: 1, H0116: 1, H0509: 1, S0426: 1, H0529: 1, L0769: 1, L0638: 1, L0646: 1, L0648: 1, L0768: 1, L0381: 1, L0375: 1, L0653: 1, L0659: 1, L0782: 1, L0809: 1, L0793: 1, H0691: 1, H0435: 1, H0659: 1, H0648: 1, S0152: 1, S0390: 1, S0027: 1, S0028: 1, L0777: 1.
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								L0731: 1, S0260: 1, L0596: 1, S0192: 1 and S0424: 1.			
HBJMN13	HBJMN13R	1064	145 - 231	3239			Glu-8 to Asn-13, Arg-16 to Thr-29.				
HBXCG52	HBXCG52R	1065	59 - 547	3240			Lys-23 to Lys-32, Ser-72 to Leu-80, Ser-90 to Gly-95, Leu-98 to His-103, Ser-106 to Gly-113, Ile-121 to Phe-128.	S0280: 1 and S0038: 1.			
HBXFO08	HBXFO08R	1066	1 - 126	3241			Leu-2 to Val-10.				
HCACS53	HCACS53RP 00A	1067	145 - 543	3242			His-2 to Glu-28, Ala-37 to Gly-45, His-54 to Pro-62, Glu-69 to Thr-77.				
HCHAJ85	HCHAJ85R	1068	171 - 359	3243			Arg-1 to Arg-6, Phe-27 to Arg-32.				
HCHMM71	HCHMM71R	1069	2 - 322	3244				H0651: 9, L0601: 5, H0559: 4, H0494: 4, L0646: 3, H0484: 2, H0255: 2, S0358: 2, H0550: 2, H0309: 2, H0014: 2, H0188: 2, H0617: 2, H0646: 2, L0769: 2, L0644: 2, L0806: 2, H0689: 2, L0750: 2, L0603: 2, H0624: 1, H0171: 1, H0657: 1, H0663: 1,			

							S0360: 1, H0574: 1, H0257: 1, H0013: 1, H0635: 1, H0098: 1, H0253: 1, H0327: 1, H0545: 1, H0024: 1, H0181: 1, H0359: 1, S0150: 1, L0369: 1, L0771: 1, L0662: 1, L0766: 1, L0803: 1, L0661: 1, S0428: 1, H0670: 1, S0328: 1, L0748: 1, L0439: 1, L0758: 1 and H0543: 1.			
HCHMW20	HCHMW20R	1070	53 - 319	3245	Ser-1 to Thr-8, Glu-17 to Ala-32, Arg-39 to Trp-47.					
HCLBH21	HCLBH21R	1071	3 - 134	3246						
HCNDT49	HCNDT49R	1072	234 - 443	3247	Gln-17 to Pro-27.					L0439: 8, H0052: 7, L0748: 7, S0440: 5, L0758: 5, H0046: 4, H0038: 4, L0769: 4, S0442: 3, H0013: 3, H0253: 3, T0010: 3, L0774: 3, L0776: 3, H0144: 3, H0521: 3, S0404: 3, L0752: 3, L0731: 3, H0656: 2, S0358: 2, S0360: 2, S0222: 2, H0618: 2, H0620: 2, L0351: 2,



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							L0788: 1, L0664: 1, L0565: 1, L0438: 1, H0547: 1, S0126: 1, H0435: 1, H0659: 1, H0658: 1, H0670: 1, H0522: 1, H0696: 1, L0740: 1, L0751: 1, L0745: 1, L0755: 1, L0757: 1, H0445: 1, H0343: 1, H0595: 1, L0596: 1, L0581: 1, L0599: 1 and S0192: 1.			
HCOMD38	HCOMD38R	1075	3 - 275	3250	Pro-1 to Pro-9, Ile-43 to Lys-48.					
HCOMD61	HCOMD61R	1076	1 - 315	3251						
HCOMF10	HCOMF10R	1077	350 - 622	3252	Asn-10 to Val-16.		L0740: 6, L0666: 2, H0547: 2, L0751: 2, L0777: 2, H0483: 1, S0358: 1, S0444: 1, H0038: 1, L0770: 1, L0768: 1, L0774: 1, L0805: 1, L0658: 1, L0789: 1, H0520: 1, H0659: 1, H0670: 1, L0747: 1, L0779: 1 and L0758: 1.			
HCOMF52	HCOMF52R	1078	2 - 523	3253	Lys-11 to Thr-16, Arg-18 to Glu-24, Arg-31 to Leu-38, Phe-51 to Glu-56.		L0439: 7, L0748: 5, H0255: 4, H0253: 4, H0012: 3, H0620: 3, H0617: 3, L0783: 3.			

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HCOMG28	HCOMG28R	1079	46 - 357	3254	Lys-1 to Arg-8, Asp-20 to Thr-26, Gly-35 to Glu-48, Leu-66 to Arg-72, Phe-83 to Tyr-88.	L0366: 1 and S0276: 1.		
HCOMG40	HCOMG40R	1080	29 - 373	3255	Trp-13 to Asp-19, Cys-29 to Gln-34, Ala-41 to Arg-52, Gly-54 to Gln-59, Arg-69 to Tyr-83.			
HCOMG82	HCOMG82R	1081	233 - 436	3256				
HCOMH70	HCOMH70R	1082	21 - 167	3257	Pro-13 to Pro-22.	H0670: 14, S0360: 9, L0657: 5, L0659: 4, L0809: 4, H0696: 4, L0777: 4, S0356: 3, L0764: 3, L0662: 3, S0374: 3, H0637: 2, H0411: 2, H0486: 2, L0762: 2, L0763: 2, L0521: 2, L0768: 2, L0774: 2, L0805: 2, L0666: 2, L0665: 2, H0659: 2, H0672: 2, H0710: 2, S0406: 2, L0744: 2, L0748: 2, H0686: 1, S0040: 1, H0713: 1, H0657: 1, H0662: 1, S0444: 1, S0408: 1, S0410: 1,		

HCOMI30	HCOMI30R	1083	42 - 497	3258			H0602: 1, H0643: 1, T0048: 1, H0263: 1, H0596: 1, H0014: 1, H0015: 1, H0594: 1, H0271: 1, H0687: 1, S0003: 1, S0214: 1, H0169: 1, H0674: 1, S0450: 1, H0649: 1, L0640: 1, L0646: 1, L0641: 1, L0773: 1, L0648: 1, L0388: 1, L0784: 1, L0806: 1, L0776: 1, L0655: 1, L0519: 1, L0530: 1, H0547: 1, H0689: 1, H0435: 1, H0648: 1, S0328: 1, S0330: 1, H0555: 1, H0627: 1, S0390: 1, S0028: 1, L0751: 1, L0779: 1, L0731: 1, S0434: 1, L0581: 1, L0362: 1 and H0667: 1.		
HCOMI37	HCOMI37R	1084	244 - 618	3259					
HCOML11	HCOML11R	1085	255 - 605	3260	Lys-1 to Gly-10, Pro-13 to Asn-23.				
HCOMM12	HCOMM12R	1086	138 - 338	3261			L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9,		

	L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5, L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4, H0658: 4, L0747: 4, L0750: 4, L0757: 4, H0295: 3, T0049: 3, H0255: 3, L0622: 3, T0039: 3, H0253: 3, H0545: 3, L0163: 3, H0594: 3, H0188: 3, H0673: 3, H0100: 3, S0142: 3, L0372: 3, L0775: 3, L0776: 3, L0657: 3, L0382: 3, L0665: 3, H0672: 3, S0027: 3, L0742: 3, L0752: 3, S0260: 3, H0445: 3, L0596: 3, L0588: 3, L0599: 3, S0420: 2, H0637: 2, S0045: 2, S0132: 2, S0300: 2, S0278: 2, S0222: 2, H0431: 2, H0392: 2, H0599: 2,	
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	H0575: 2, H0052: 2, H0309: 2, H0085: 2, H0597: 2, H0544: 2, H0428: 2, H0124: 2, S0036: 2, H0163: 2, H0038: 2, H0413: 2, H0529: 2, L0369: 2, L0763: 2, L0770: 2, L0638: 2, L0764: 2, L0771: 2, L0803: 2, L0804: 2, L0375: 2, L0655: 2, L0384: 2, L0809: 2, L0532: 2, S0374: 2, S0126: 2, H0670: 2, H0651: 2, H0521: 2, S0028: 2, L0740: 2, L0485: 2, L0362: 2, L0601: 2, S0192: 2, S0424: 2, L0600: 2, H0556: 1, T0002: 1, H0686: 1, S0040: 1, S0342: 1, H0294: 1, S0114: 1, S0134: 1, H0650: 1, H0657: 1, L0785: 1, H0341: 1, S0180: 1, S0212: 1, H0484: 1, H0483: 1, H0254: 1, H0671: 1, H0662: 1, H0402: 1, H0638: 1,					
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					L0772: 1, L0373: 1, L0646: 1, L0643: 1, L0374: 1, L0765: 1, L0773: 1, L0648: 1, L0521: 1, L0768: 1, L0364: 1, L0533: 1, L0650: 1, L0774: 1, L0376: 1, L0806: 1, L0652: 1, L0653: 1, L0606: 1, L0629: 1, L0659: 1, L0636: 1, L0542: 1, L0526: 1, L0518: 1, L0782: 1, L0783: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0659: 1, H0660: 1, S0328: 1, S0330: 1, S0380: 1, H0522: 1, S0004: 1, H0555: 1, L0611: 1, S014: 1, S0206: 1, L0755: 1, L0758: 1, H0444: 1, L0587: 1, L0589: 1, L0605: 1, L0591: 1, L0608: 1, L0361: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, H0543: 1, H0423: 1, S0460: 1, S0456: 1 and H0506: 1.
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HCOMM55	HCOMM55R	1087	298 - 119	3262	Pro-10 to Leu-20, His-27 to Lys-40.			
HCOMO58	HCOMO58R	1088	1 - 336	3263	Phe-7 to Asp-29, Glu-31 to Lys-38, Thr-46 to Thr-52, Glu-65 to Arg-72.			
HCOMW52	HCOMW52R P00B	1089	3 - 443	3264				
HCOMX77	HCOMX77R	1090	166 - 492	3265				
HCONC18	HCONC18RP 00B	1091	3 - 161	3266				
HCONH28	HCONH28R	1092	76 - 267	3267		L0754: 3, H0624: 2, S0354: 2, H0124: 2, L0766: 2, L0751: 2, L0759: 2, S0116: 1, H0661: 1, H0098: 1, H0597: 1, L0157: 1, S0250: 1, S0003: 1, H0622: 1, H0553: 1, H0509: 1, L0521: 1, L0662: 1, L0768: 1, L0803: 1, L0657: 1, L0659: 1, L0666: 1, L0663: 1, H0144: 1, S0126: 1, H0670: 1, L0779: 1, L0777: 1, L0755: 1, L0589: 1 and L0362: 1.		
HCONK56	HCONK56R	1093	8 - 718	3268				
HCONK75	HCONK75R	1094	33 - 398	3269				

HCONL49	HCONL49R	1095	3 - 221	3270	His-23 to Lys-34, Arg-49 to Leu-57, Pro-59 to Ser-66.			
HCONL59	HCONL59R	1096	255 - 455	3271		L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8, H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3, H0331: 3, H0575: 3, L0471: 3, H0620: 3,		

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	H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3, H0331: 3, H0575: 3, L0471: 3, H0620: 3, S0250: 3, H0032: 3, H0591: 3, L0598: 3, L0803: 3, L0653: 3, L0657: 3, H0670: 3, S0406: 3, H0555: 3, L0780: 3, L0605: 3, H0667: 3, H0717: 2, T0049: 2, S0212: 2, H0661: 2, S0376: 2, S0007: 2, H0208: 2, S0476: 2, H0645: 2, H0411: 2, H0437: 2, H0550: 2, H0586: 2.	
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HCONP44	HCONP44R	1101	3 - 413	3276			H0519: 1, H0659: 1, H0670: 1, S0328: 1, H0696: 1, L0439: 1, L0581: 1, S0242: 1 and S0276: 1.		
HCONQ67	HCONQ67R	1102	1 - 669	3277		Val-1 to Ile-10, Met-32 to Asn-42, Gly-7 to Gly-21, Pro-145 to Arg-152, Ala-178 to Lys-183.			
HCONQ71	HCONQ71R	1103	312 - 488	3278					
HCONR31	HCONR31R	1104	3 - 380	3279		Gly-18 to Gln-39, Leu-49 to His-60, Glu-67 to Asp-92.			
HCONU03	HCONU03R	1105	3 - 575	3280					
HCONW62	HCONW62R	1106	1 - 429	3281		Thr-76 to Arg-92, Pro-113 to Ala-118.			
HCONW74	HCONW74R	1107	85 - 234	3282		Pro-15 to Tyr-21.			
HCONW90	HCONW90R	1108	2 - 151	3283		Asn-1 to Pro-10.			
HCONW95	HCONW95R	1109	44 - 457	3284					
HCOOB60	HCOOB60R	1110	101 - 352	3285					
HCOOG32	HCOOG32R	1111	2 - 334	3286					
HCOOG37	HCOOG37R	1112	3 - 482	3287					
HCOOH93	HCOOH93R	1113	1 - 426	3288					
HCOOI71	HCOOI71R	1114	1 - 354	3289		Ala-15 to Gln-25, Gly-42 to Asp-51, Gln-82 to Lys-87, Lys-113 to Lys-118.			
HCOOI79	HCOOI79R	1115	209 - 625	3290					

HCOOM18	HCOOM18R	1116	2 - 694	3291	Lys-71 to Glu-76, Ala-95 to Asp-100, Asp-113 to Ser-134.			
HCOOM73	HCOOM73R	1117	2 - 661	3292	Leu-33 to Lys-39.	H0012: 5, H0620: 4, H0622: 4, L0803: 4, H0670: 4, L0751: 4, L0770: 3, S6024: 2, S0222: 2, L0791: 2, L0731: 2, H0549: 1, H0438: 1, T0023: 1, H0477: 1, H0647: 1, L0648: 1, L0774: 1, L0659: 1, L0664: 1, L0665: 1, H0659: 1, H0658: 1, H0648: 1, H0651: 1, S0380: 1, L0748: 1, L0439: 1, L0756: 1, L0779: 1 and L0755: 1.		
HCOOQ46	HCOOQ46R	1118	2 - 166	3293				
HCOOS39	HCOOS39R	1119	2 - 229	3294				
HCOOT43	HCOOT43R	1120	2 - 439	3295		L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9, L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5,		

L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4, H0658: 4, L0747: 4, L0750: 4, L0757: 4, H0295: 3, T0049: 3, H0255: 3, L0622: 3, T0039: 3, H0253: 3, H0545: 3, L0163: 3, H0594: 3, H0188: 3, H0673: 3, H0100: 3, S0142: 3, L0372: 3, L0775: 3, L0776: 3, L0657: 3, L0382: 3, L0665: 3, H0672: 3, S0027: 3, L0742: 3, L0752: 3, S0260: 3, H0445: 3, L0596: 3, L0588: 3, L0599: 3, S0420: 2, H0637: 2, S0045: 2, S0132: 2, S0300: 2, S0278: 2, S0222: 2, H0431: 2, H0392: 2, H0599: 2, H0575: 2, H0052: 2, H0309: 2, H0085: 2, H0597: 2, H0544: 2, H0428: 2, H0124: 2, S0036: 2, H0163: 2, H0038: 2, H0413: 2,					
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	T0114: 1, S0280: 1, L0021: 1, H0590: 1, H0004: 1, H0618: 1, S0010: 1, H0318: 1, S0049: 1, H0251: 1, H0596: 1, T0110: 1, H0327: 1, H0009: 1, H0123: 1, L0471: 1, H0006: 1, H0014: 1, H0051: 1, S0388: 1, H0510: 1, S0334: 1, H0687: 1, T0023: 1, T0006: 1, H0424: 1, H0182: 1, H0606: 1, H0383: 1, H0165: 1, H0166: 1, S0366: 1, H0135: 1, H0090: 1, T0067: 1, H0488: 1, H0412: 1, T0069: 1, S0112: 1, L0564: 1, H0494: 1, S0015: 1, H0561: 1, L0762: 1, L0640: 1, L0637: 1, L0761: 1, L0667: 1, L0772: 1, L0373: 1, L0646: 1, L0643: 1, L0374: 1, L0765: 1, L0773: 1, L0648: 1, L0521: 1, L0768: 1, L0364: 1, L0533: 1,	
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L0747: 5, H0542: 5, H0423: 5, H0624: 4, T0002: 4, H0486: 4, H0031: 4, H0169: 4, H0616: 4, L0770: 4, L0776: 4, L0666: 4, S0152: 4, L0754: 4, H0657: 3, H0663: 3, S0418: 3, S0358: 3, S0360: 3, H0038: 3, L0764: 3, L0648: 3, L0775: 3, L0655: 3, L0749: 3, L0750: 3, L0755: 3, S0026: 3, H0422: 3, H0170: 2, H0171: 2, H0341: 2, H0402: 2, H0638: 2, S0045: 2, S0046: 2, H0156: 2, S0182: 2, H0318: 2, L0471: 2, S0003: 2, H0168: 2, H0674: 2, H0090: 2, H0063: 2, H0412: 2, H0413: 2, H0100: 2, S0440: 2, L0769: 2, L0372: 2, L0662: 2, L0659: 2, H0547: 2, H0659: 2, S0328: 2, S0380: 2, H0521: 2, L0756: 2, L0758: 2,
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HCOOU56	HCOOU56R	1122	3 - 257	3297				S0210: 1, H0529: 1, L0520: 1, L0763: 1, L0637: 1, L0800: 1, L0765: 1, L0773: 1, L0521: 1, L0768: 1, L0364: 1, L0766: 1, L0806: 1, L0653: 1, L0657: 1, L0518: 1, L0783: 1, L0383: 1, L0663: 1, L0664: 1, H0593: 1, H0689: 1, H0682: 1, H0670: 1, H0666: 1, H0648: 1, H0672: 1, L0355: 1, H0522: 1, S0013: 1, H0696: 1, H0134: 1, H0214: 1, S0406: 1, L0609: 1, S3014: 1, S0206: 1, L0744: 1, L0751: 1, H0343: 1, L0591: 1, L0601: 1, S0242: 1, L0697: 1, S0424: 1 and S0446: 1.			
HCOOW72	HCOOW72R	1123	58 - 534	3298							
								Ala-20 to Asp-25, Asp-38 to Ser-59, Asn-103 to Glu-109, Pro-111 to Ser-119.			
HCOOX01	HCOOX01R A	1124	153 - 311	3299							

HCOOX07	HCOOX07R	1125	236 - 367	3300	His-15 to Gly-29.	L0751: 14, L0659: 11, H0695: 10, L0666: 10, L0757: 9, L0743: 8, L0779: 8, H0581: 6, L0769: 6, L0748: 6, L0758: 6, H0556: 5, H0402: 5, S0360: 5, H0014: 5, H0271: 5, L0761: 5, L0667: 5, L0774: 5, L0653: 5, S0406: 5, H0436: 5, S0358: 4, S0132: 4, L0763: 4, L0776: 4, L0809: 4, L0664: 4, S0126: 4, L0731: 4, S0280: 3, H0150: 3, H0687: 3, L0662: 3, L0775: 3, L0375: 3, H0670: 3, L0749: 3, S0434: 3, H0295: 2, H0650: 2, S0408: 2, H0580: 2, H0411: 2, H0586: 2, H0559: 2, H0545: 2, H0050: 2, S0051: 2, H0083: 2, H0416: 2, H0688: 2, H0617: 2, H0063: 2, H0551: 2, S0344: 2, L0643: 2, L0764: 2, L0766: 2, L0649: 2,		
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	L0806: 2, L0657: 2, L0647: 2, L0793: 2, L0665: 2, S0428: 2, S0332: 2, L0747: 2, L0752: 2, H0624: 1, H0171: 1, H0265: 1, H0159: 1, H0713: 1, S0218: 1, H0656: 1, S0116: 1, H0483: 1, H0663: 1, H0638: 1, S0356: 1, S0444: 1, H0339: 1, S0046: 1, S0476: 1, S0278: 1, S6022: 1, H0550: 1, S0414: 1, L0622: 1, H0486: 1, H0635: 1, H0427: 1, H0156: 1, H0599: 1, H0052: 1, H0309: 1, H0597: 1, H0546: 1, L0041: 1, H0123: 1, H0510: 1, H0188: 1, T0006: 1, L0055: 1, H0673: 1, H0674: 1, H0708: 1, H0316: 1, H0634: 1, H0087: 1, H0059: 1, S0352: 1, S0448: 1, S0306: 1, L0640: 1, L0371: 1, L0770: 1, L0638: 1, L5565: 1.	
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							L0646: 1, L0642: 1, L0645: 1, L0771: 1, L0773: 1, L0648: 1, L0794: 1, L0805: 1, L0652: 1, L0661: 1, L0493: 1, L0635: 1, L0384: 1, L0788: 1, L0663: 1, S0052: 1, S0216: 1, S0374: 1, T0068: 1, H0689: 1, H0682: 1, H0659: 1, H0666: 1, H0672: 1, S0330: 1, H0539: 1, H0710: 1, H0521: 1, H0522: 1, H0696: 1, S0190: 1, S0404: 1, H0555: 1, L0744: 1, L0740: 1, L0756: 1, L0777: 1, L0759: 1, S0031: 1, H0595: 1, L0581: 1, L0361: 1 and S0194: 1.			
HCOOX48	HCOOX48R	1126	203 - 349	3301	Leu-13 to Gly-21, Ser-27 to Ser-42.					
HCOOY43	HCOOY43R	1127	1 - 315	3302	Asn-67 to Arg-73, Thr-96 to Gly-102.					
HCOPA60	HCOPA60RA	1128	3 - 446	3303	Ala-1 to Leu-7, Gly-14 to Arg-19, Tyr-34 to Asp-41.	L0748: 4, L0747: 4, L0779: 4, H0620: 3, L0770: 3, L0774: 3, L0622: 2, S0280: 2,				

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HCOPC45	HCOPC45R	1130	3 - 89	3305				
HCOPD67	HCOPD67R	1131	26 - 541	3306	Phe-1 to Gly-7.			
HCOPE27	HCOPE27R	1132	2 - 400	3307	Arg-37 to Gly-44, Asp-76 to Gly-87.	L0751: 16, L0601: 10, L0659: 4, H0670: 4, L0665: 3, S0376: 2, H0494: 2, L0758: 2, L0596: 2, H0587: 1, H0646: 1, L0372: 1, L0646: 1, L0662: 1, L0552: 1, L0376: 1, L0806: 1, L0664: 1, H0682: 1, H0435: 1, H0672: 1 and L0744: 1.		
HCOPH51	HCOPH51RA	1133	243 - 398	3308				
HCOP109	HCOP109RA	1134	2 - 328	3309				
HCOPM42	HCOPM42R	1135	1 - 90	3310				
HCOP34	HCOP34R	1136	140 - 361	3311	Thr-6 to Cys-16, Tyr-40 to Lys-47, Ser-61 to Gln-66.			
HCOP36	HCOP36R	1137	143 - 601	3312	Arg-1 to Ser-7, Ser-25 to Phe-32, Leu-39 to Ser-44, Arg-58 to Gly-63, Ser-140 to Thr-145.	L0665: 3, H0682: 2, H0435: 2, L0751: 2, H0663: 1, L0021: 1, H0647: 1, L0806: 1, L0664: 1, H0683: 1, H0670: 1 and H0660: 1.		
HCOP88	HCOP88R	1138	1 - 267	3313	Pro-7 to Phe-15, Gly-26 to Arg-31, Asp-35 to Glu-43.			
HCOPV41	HCOPV41R	1139	3 - 620	3314	Arg-4 to Lys-9,			

						Asp-61 to Asn-67, Thr-69 to Lys-75, Leu-105 to Ala-112, Gly-126 to His-134, Gly-172 to Glu-179, Pro-186 to Asn-199.				
HCOPI15	HCOPI15R	1140	1 - 582	3315			AR096: 11, AR061: 10, AR104: 5, AR060: 5, AR089: 5, AR055: 4 L0774: 3, S0358: 2, H0509: 2, L0809: 2, H0670: 2, L0745: 2, L0779: 2, L0752: 2, H0449: 1, T0048: 1, H0355: 1, H0428: 1, H0617: 1, S0438: 1, H0529: 1, L0770: 1, L0761: 1, L0773: 1, L0803: 1, L0804: 1, L0375: 1, L0659: 1, L0382: 1, L0791: 1, S0328: 1, H0134: 1, L0743: 1, L0748: 1, L0747: 1 and L0756: 1.			
HCOQA38	HCOQA38R	1141	41 - 271	3316		His-39 to Asn-45, Cys-68 to Cys-75.				
HCOQA80	HCOQA80R	1142	1 - 192	3317		His-37 to Asp-42.				
HCOQB12	HCOQB12R	1143	1 - 582	3318		Lys-6 to Asp-11, Gly-22 to Phe-27.				



HCOQB56	HCOQB56R	1144	1 - 66	3319	His-54 to Gly-63, Asp-73 to Lys-79.	H0670: 2 and H0589: 1.			
HCOQB58	HCOQB58R	1145	281 - 466	3320	Lys-1 to Gln-7.	L0794: 7, L0803: 5, L0809: 5, L0666: 5, L0751: 5, L0759: 3, H0674: 2, L0768: 2, L0774: 2, L0663: 2, L0779: 2, L0758: 2, S0360: 1, H0455: 1, H0618: 1, H0263: 1, H0169: 1, H0616: 1, H0059: 1, S0112: 1, L0451: 1, L0770: 1, L0639: 1, L0648: 1, L0804: 1, L0776: 1, L0783: 1, L0789: 1, L0790: 1, L0791: 1, L0664: 1, L0665: 1, H0670: 1, H0672: 1 and L0608: 1.			
HCOQC71	HCOQC71R	1146	3 - 248	3321	Lys-1 to Asp-21, Lys-61 to Leu-71.				
HCOQD29	HCOQD29R	1147	1 - 570	3322	Glu-66 to Arg-72, Pro-148 to Ser-154.				
HCOQD38	HCOQD38R	1148	106 - 639	3323	Met-3 to Ser-16, Cys-25 to Asp-35, Glu-42 to Lys-52, Ser-55 to Glu-63, Glu-74 to Thr-79.				

HCOQD49	HCOQD49R	1149	8 - 196	3324	Ile-81 to Ser-102, Ser-109 to Glu-118, Thr-138 to Glu-158. Asp-39 to Ser-46.	S0358: 15, S0003: 13, S0126: 11, L0754: 11, S0410: 10, H0599: 9, S0440: 9, H0529: 9, L0748: 9, H0341: 8, H0373: 8, H0591: 8, L0588: 8, L0362: 8, H0661: 7, S0007: 7, L0471: 7, L0731: 7, H0170: 6, T0042: 6, S0374: 6, H0624: 5, S0408: 5, H0013: 5, H0046: 5, H0031: 5, H0551: 5, H0144: 5, L0752: 5, H0657: 4, S0346: 4, S0214: 4, H0039: 4, H0644: 4, H0616: 4, H0413: 4, H0494: 4, H0670: 4, S0404: 4, S3014: 4, L0740: 4, L0747: 4, L0750: 4, L0753: 4, L0758: 4, L0581: 4, S0424: 4, S0040: 3, H0663: 3, H0638: 3, S0356: 3, S0360: 3, S0222: 3, H0497: 3,		
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	H0575: 3, H0036: 3, S0010: 3, H0052: 3, S0438: 3, H0547: 3, S0328: 3, S0380: 3, S0206: 3, L0439: 3, L0757: 3, L0595: 3, H0423: 3, S0114: 2, S0116: 2, S0212: 2, H0484: 2, H0125: 2, S0418: 2, S0376: 2, S0444: 2, H0580: 2, H0393: 2, H0369: 2, H0370: 2, H0409: 2, H0331: 2, H0574: 2, H0486: 2, H0156: 2, H0042: 2, H0318: 2, H0581: 2, H0196: 2, H0012: 2, L0163: 2, H0083: 2, H0266: 2, H0328: 2, H0615: 2, L0194: 2, L0483: 2, H0673: 2, H0169: 2, S0364: 2, H0316: 2, H0598: 2, S0036: 2, H0090: 2, T0067: 2, S0150: 2, S0344: 2, S0422: 2, S0002: 2, L0762: 2, L0774: 2, L0666: 2, L0438: 2, H0659: 2, H0539: 2,				
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								H0444: 1, H0595: 1, L0608: 1, S0011: 1, H0668: 1, S0026: 1, H0136: 1, H0542: 1 and H0422: 1.			
HCOQF77	HCOQF77R	1150	1 - 357	3325							
HCOQG37	HCOQG37R	1151	3 - 395	3326	Pro-26 to Asn-34, Pro-50 to Pro-56, Arg-64 to Val-69, Val-97 to Lys-103.						
HCOQG47	HCOQG47R	1152	208 - 522	3327							
HCOQH46	HCOQH46R	1153	2 - 583	3328							
HCOQI14	HCOQI14R	1154	11 - 187	3329	Arg-10 to Ser-16.			L0777: 9, L0766: 5, L0748: 3, L0439: 3, H0599: 2, L0774: 2, L0747: 2, L0749: 2, L0779: 2, L0731: 2, H0305: 1, L0534: 1, H0675: 1, S0046: 1, H0004: 1, H0083: 1, L0456: 1, T0042: 1, S0344: 1, S0002: 1, L0369: 1, L0770: 1, L0773: 1, L0803: 1, L0776: 1, L0809: 1, L0791: 1, H0658: 1, H0670: 1, S3012: 1, L0756: 1, L0780: 1 and L0759: 1.			
HCOQI67	HCOQI67R	1155	1 - 126	3330							

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Ser-28 to Ser-34, Thr-45 to Thr-56, Ser-58 to Thr-63, Tyr-74 to Thr-79.	S0438: 3, H0641: 3, L0588: 3, L0592: 3, T0049: 2, H0549: 2, H0431: 2, H0486: 2, L0471: 2, H0169: 2, S0372: 2, L0520: 2, L0553: 2, L0768: 2, L0649: 2, L0655: 2, L0527: 2, L0783: 2, L0532: 2, H0144: 2, H0682: 2, H0670: 2, S0378: 2, S0406: 2, L0750: 2, S0026: 2, H0542: 2, H0170: 1, H0716: 1, S0212: 1, H0638: 1, H0125: 1, S0444: 1, H0580: 1, H0393: 1, H0411: 1, H0587: 1, L0586: 1, T0114: 1, H0390: 1, T0048: 1, H0318: 1, H0596: 1, H0620: 1, H0375: 1, T0006: 1, H0606: 1, H0429: 1, S0294: 1, H0386: 1, L0770: 1, L0769: 1, L3904: 1, L0374: 1, L0773: 1, L0662: 1, L0766: 1, L0803: 1, L0774: 1, L0526: 1.
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HCOQV27	HCOQV27R	1168	3 - 239	3343	Glu-1 to Lys-17, Val-25 to Asn-30, Phe-36 to Pro-42.	L0809: 1, L0793: 1, L0664: 1, S0053: 1, H0689: 1, H0684: 1, H0659: 1, H0658: 1, H0648: 1, S0330: 1, H0521: 1, H0522: 1, S0404: 1, L0749: 1, L0780: 1, L0731: 1 and H0543: 1.		
						H0250: 35, L0770: 9, H0635: 6, L0483: 6, L0766: 6, H0521: 6, L0745: 6, S0003: 5, H0623: 5, L0776: 5, H0445: 5, S0408: 4, H0411: 4, H0634: 4, H0641: 4, L0598: 4, H0650: 3, H0656: 3, S0360: 3, H0574: 3, H0486: 3, H0373: 3, H0687: 3, H0591: 3, H0040: 3, L0662: 3, L0775: 3, L0665: 3, S0216: 3, L0748: 3, L0777: 3, S0134: 2, H0663: 2, S0007: 2, H0550: 2, H0013: 2, H0581: 2, H0510: 2, S0214: 2, H0615: 2, H0674: 2, S0440: 2,		

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HCOQX38	HCOQX38R	1169	23 - 439	3344	Trp-2 to Gly-7.			S0366: 1, H0087: 1, T0067: 1, H0100: 1, S0294: 1, H0633: 1, H0649: 1, S0422: 1, UNKWN: 1, L0667: 1, L0641: 1, L0764: 1, L0794: 1, L0649: 1, L0774: 1, L0784: 1, L0805: 1, L0657: 1, L0659: 1, L0791: 1, L0792: 1, L0664: 1, S0052: 1, S0428: 1, H0699: 1, H0703: 1, H0693: 1, L0438: 1, H0547: 1, H0593: 1, H0659: 1, H0670: 1, H0522: 1, S0013: 1, H0555: 1, H0436: 1, H0576: 1, H0478: 1, S3014: 1, L0740: 1, L0746: 1, L0758: 1, L0588: 1, L0595: 1, L0361: 1, S0026: 1, S0242: 1, S0194: 1 and H0352: 1.		
HCOQY33	HCOQY33R	1170	1 - 321	3345						
HCOQY43	HCOQY43R	1171	271 - 510	3346				S0282: 1, L0021: 1, S0438: 1, L0775: 1, L0666: 1, L0663: 1.		

									H0659: 1, H0670: 1 and L0758: 1.		
HCOQZ02	HCOQZ02R	1172	387 - 473	3347	Lys-1 to Lys-13.						
HCOQZ86	HCOQZ86R	1173	1 - 507	3348							
HCORA95	HCORA95R	1174	2 - 136	3349	Pro-1 to Phe-15.						
HCORB20	HCORB20R	1175	14 - 292	3350	Val-1 to Gly-9.						
HCORB43	HCORB43R	1176	1 - 303	3351							
HCORB66	HCORB66R	1177	3 - 611	3352	Asn-1 to Gly-8.						
HCORI18	HCORI18R	1178	105 - 317	3353	Asn-7 to Pro-33, Gly-40 to Gly-46, Tyr-49 to Tyr-71.				L0770: 3, H0685: 1, H0581: 1, H0553: 1, S0150: 1 and H0670: 1.		
HCORI25	HCORI25R	1179	3 - 419	3354	Leu-35 to Tyr-40.				L0754: 14, H0052: 13, L0748: 13, H0556: 12, L0591: 12, L0755: 11, L0752: 10, L0731: 9, L0601: 9, L0439: 8, L0777: 8, L0596: 8, H0046: 7, H0521: 7, L0758: 7, H0599: 6, H0622: 6, S0002: 6, L0646: 6, L0593: 6, H0265: 5, S0474: 5, L0776: 5, L0666: 5, L0741: 5, L0747: 5, S0026: 5, H0543: 5, H0619: 4, S0222: 4, H0013: 4, H0590: 4, H0544: 4, H0620: 4, H0124: 4, H0038: 4,		

S0386: 4, L0766: 4, L0659: 4, H0547: 4, H0670: 4, S0378: 4, L0740: 4, L0749: 4, L0750: 4, S0434: 4, L0588: 4, L0589: 4, S0040: 3, H0580: 3, S6026: 3, H0486: 3, S0010: 3, S0051: 3, T0010: 3, H0083: 3, H0266: 3, S0250: 3, H0031: 3, H0591: 3, S0142: 3, S0344: 3, H0529: 3, L0770: 3, L0769: 3, L0761: 3, L0662: 3, L0774: 3, L0653: 3, L0663: 3, L0665: 3, L0438: 3, H0435: 3, S0152: 3, H0696: 3, S0342: 2, T0049: 2, H0657: 2, S0212: 2, H0638: 2, S0418: 2, S0354: 2, S0444: 2, S0360: 2, S0046: 2, S0132: 2, S0476: 2, L0717: 2, S0278: 2, H0549: 2, H0438: 2, H0587: 2, H0333: 2, H0427: 2, H0706: 2, H0545: 2,
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HCQCR82	HCQCR82R	1180	48 - 206	3355	Glu-9 to Gly-17.							
HCRME42	HCRME42R	1181	1 - 537	3356	Lys-14 to Gly-26, Glu-33 to Arg-44, Pro-64 to Pro-69, Pro-79 to Asn-88, Thr-109 to Pro-123.							
HDABR53	HDABR53R	1182	2 - 463	3357								
HDLBE03	HDLBE03R	1183	158 - 325	3358	Ala-17 to Asn-23.							
HDPFI26	HDPFI26R	1184	37 - 303	3359	Ser-1 to Thr-8,							

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HDTBP08	HDTBP08R	1186	231 - 431	3361	Leu-21 to Ala-27, Pro-48 to Gly-55.	S0276: 1.			
HDTDA21	HDTDA21R	1187	207 - 431	3362	Ala-14 to Leu-20.				
HDTDB88	HDTDB88R	1188	102 - 215	3363	Tyr-25 to Phe-32.				
HDTJR38	HDTJR38R	1189	179 - 364	3364		L0748: 50, L0754: 42, L0731: 31, H0644: 30, L0747: 29, H0551: 22, S0418: 21, L0659: 17, H0619: 15, L0663: 14, L0666: 13, S0360: 10, H0622: 10, H0031: 10, H0553: 10, L0662: 10, S0126: 10, L0757: 10, L0603: 10, S0420: 8, H0486: 8, H0013: 8, H0050: 8, H0623: 8, L0717: 7, H0144: 7, L0770: 6, L0750: 6, H0427: 5, H0024: 5, H0328: 5, H0030: 5, L0773: 5, L0665: 5, L0749: 5, H0713: 4, T0039: 4, S0280: 4, H0012: 4, H0038: 4, L0794: 4, L0774: 4, L0775: 4, L0805: 4, H0624: 3, H0170: 3, H0171: 3, S0356: 3, H0329: 3, S0046: 3,			

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HE8QX44	HE8QX44R	1190	1 - 288	3365	Thr-8 to Thr-22, Phe-42 to Lys-51, Arg-60 to Lys-69.	L0369: 1, L3904: 1, L0800: 1, L0641: 1, L0764: 1, L5564: 1, L0804: 1, L0378: 1, L0806: 1, L0807: 1, L0526: 1, L0787: 1, L0788: 1, L0791: 1, L0793: 1, S0374: 1, H0691: 1, T0068: 1, H0690: 1, H0682: 1, H0684: 1, H0658: 1, H0672: 1, H0651: 1, H0518: 1, H0696: 1, S0146: 1, S0037: 1, S3014: 1, S0027: 1, S0028: 1, S0206: 1, S0032: 1, H0445: 1, L0589: 1, L0590: 1, L0485: 1, L0604: 1, H0668: 1, H0653: 1, S0242: 1, S0194: 1 and H0008: 1.		
HE9QU94	HE9QU94R	1191	3 - 170	3366	Arg-1 to Cys-23, Trp-25 to Ser-35.			
HEAHF02	HEAHF02R	1192	32 - 376	3367	Ser-10 to Thr-34, Ser-37 to Asn-89.			
HEEAY40	HEEAY40R	1193	3 - 128	3368	Thr-15 to Ser-26.			

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	L0600: 2, H0556: 1, H0686: 1, H0717: 1, H0656: 1, S0001: 1, H0661: 1, H0663: 1, H0402: 1, S0418: 1, S0420: 1, S0358: 1, S0376: 1, S0408: 1, S0045: 1, S0132: 1, H0619: 1, H0549: 1, S0222: 1, H0441: 1, H0392: 1, H0600: 1, H0586: 1, H0559: 1, H0486: 1, H0013: 1, S0280: 1, H0599: 1, H0575: 1, H0618: 1, H0318: 1, S0474: 1, S0049: 1, H0251: 1, T0115: 1, H0545: 1, H0009: 1, H0567: 1, H0571: 1, H0050: 1, L0471: 1, S0051: 1, S6028: 1, H0687: 1, H0428: 1, H0622: 1, T0006: 1, H0213: 1, L0142: 1, H0181: 1, H0032: 1, H0056: 1, H0100: 1, H0494: 1, H0561: 1, H0652: 1, S0142: 1, S0344: 1, L0625: 1, L0770: 1.				
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HFABK01	HFABK01R	1196	26 - 112	3371	Asn-4 to Tyr-9.					
HFADS75	HFADS75R	1197	102 - 365	3372	Ala-16 to Arg-26, Pro-68 to Gly-78.					
HFIBG63	HFIBG63R	1198	2 - 409	3373						
HFIBJ15	HFIBJ15R	1199	32 - 151	3374						
HFIXK57	HFIXK57R	1200	2 - 211	3375		H0594: 18, L0777: 10, L0766: 6, H0595: 6, H0170: 5, H0373: 5,				

			L0598: 5, L0665: 5, S0412: 5, H0411: 4, L0662: 4, L0756: 4, L0731: 4, S0260: 4, H0624: 3, H0171: 3, S0282: 3, S0388: 3, L0776: 3, L0752: 3, L0758: 3, S0194: 3, L0717: 2, S0280: 2, H0428: 2, H0063: 2, S0344: 2, S0422: 2, L0650: 2, L0659: 2, L0666: 2, L0663: 2, L0439: 2, H0685: 1, S0218: 1, H0650: 1, H0177: 1, H0402: 1, S0358: 1, S0360: 1, S0046: 1, S0278: 1, H0550: 1, S0222: 1, H0431: 1, H0600: 1, H0592: 1, H0587: 1, H0486: 1, L0021: 1, H0599: 1, H0037: 1, H0263: 1, H0545: 1, H0050: 1, H0057: 1, L0163: 1, T0023: 1, H0598: 1, S0036: 1, H0551: 1, H0100: 1, H0359: 1, L0065: 1, H0649: 1, L0769: 1.		
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HFVIB28	HFVIB28R	1206	11 - 250	3381	His-66 to Leu-77, Gln-80 to Ala-88, Tyr-92 to Ser-98.			
HFXGR60	HFXGR60R	1207	353 - 57	3382				
HHAUD07	HHAUD07R	1208	304 - 426	3383	S0001: 1			
HHBFO21	HHBFO21R	1209	54 - 230	3384	Val-24 to Leu-31.			
HHEVG50	HHEVG50R	1210	1 - 474	3385				
HHFGQ65	HHFGQ65RA	1211	53 - 277	3386	Arg-2 to Ser-7.			
HHFOE48	HHFOE48RP 00B	1212	181 - 426	3387		H0666: 13, S0358: 10, H0620: 10, L0750: 8, L0747: 7, L0731: 7, H0135: 5, L0659: 5, L0740: 5, L0757: 5, S0360: 4, H0123: 4, S0022: 4, L0666: 4, L0665: 4, S0028: 4, L0748: 4, L0777: 4, L0588: 4, H0265: 3, S0420: 3, H0208: 3, H0545: 3, H0046: 3, H0024: 3, H0284: 3, H0100: 3, L0650: 3, L0375: 3, L0382: 3, H0651: 3, L0755: 3, H0352: 3, S0278: 2, H0592: 2, H0333: 2, H0253: 2, H0544: 2, H0081: 2, H0012: 2, H0266: 2, H0286: 2,		

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HHSFG15	HHSFG15R	1213	3 - 62	3388										
HHSGP15	HHSGP15R	1214	77 - 142	3389										
HHSQG17	HHSQG17R	1215	112 - 270	3390										
HKBAD05	HKBAD05R	1216	49 - 315	3391	Pro-13 to Leu-18, Leu-37 to Arg-42, Lys-65 to Gly-77..									
HKZAD21	HKZAD21R	1217	244 - 405	3392										
HKZAE07	HKZAE07R	1218	1 - 138	3393	Val-40 to Tyr-46.				L0752: 11, L0662: 9,					

	L0596: 9, L0659: 8, L0665: 7, L0766: 5, L0750: 5, L0521: 4, L0740: 4, L0757: 4, L0771: 3, L0775: 3, L0809: 3, L0666: 3, L0664: 3, H0648: 3, L0755: 3, L0758: 3, L0591: 3, L0785: 2, L0717: 2, H0036: 2, H0052: 2, H0529: 2, L0769: 2, L0637: 2, L0646: 2, L0765: 2, L0651: 2, L0653: 2, L0776: 2, L0655: 2, L0663: 2, H0682: 2, L0748: 2, L0439: 2, L0731: 2, L0759: 2, L0593: 2, L0595: 2, L0601: 2, H0686: 1, S0134: 1, L0778: 1, H0484: 1, H0661: 1, H0662: 1, H0393: 1, H0643: 1, H0002: 1, H0599: 1, H0318: 1, S0049: 1, H0251: 1, L0040: 1, H0545: 1, L0041: 1, N0006: 1, N0007: 1, S0388: 1, L0483: 1, H0606: 1.
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HKZAG45	HKZAG45RA	1219	79 - 327	3394	Gly-1 to Val-7, Lys-15 to Leu-25, Pro-52 to Cys-57.				
HKZAI14	HKZAI14R	1220	3 - 368	3395	Lys-47 to Glu-52, Ala-71 to Asp-76, Asp-89 to Ser-110.				



HKZAI68	HKZAI68RA	1221	2 - 79	3396	Ser-9 to Ala-15.	S0474: 22, S0360: 13, H0556: 11, S0358: 11, L0747: 11, H0087: 10, S0126: 10, H0124: 9, S0410: 8, S0278: 8, H0024: 8, L0588: 8, S0206: 7, S0046: 6, L0731: 6, H0543: 6, H0265: 5, S0212: 5, S0045: 5, H0620: 5, H0594: 5, H0090: 5, H0063: 5, H0551: 5, T0042: 5, L0530: 5, H0144: 5, H0696: 5, S3014: 5, L0758: 5, S0192: 5, S0116: 4, H0549: 4, H0013: 4, H0530: 4, H0544: 4, H0081: 4, L0471: 4, H0012: 4, H0644: 4, H0163: 4, H0412: 4, H0100: 4, L0769: 4, L0771: 4, S0027: 4, L0740: 4, L0757: 4, L0605: 4, H0423: 4, H0624: 3, H0713: 3, S0418: 3, S0444: 3, S0408: 3, H0251: 3, H0545: 3, S0051: 3, H0083: 3, H0290: 3,		
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								H0668: 1, H0653: 1, H0542: 1, H0422: 1, S0042: 1, S0456: 1 and S0446: 1.			
HKZAQ39	HKZAQ39R	1222	1 - 480	3397	Ser-1 to Lys-6, Asp-48 to Gly-55, Pro-68 to Phe-76, Pro-83 to Gly-89, Asn-100 to Asp- 108, Glu-134 to Lys-141, Lys-144 to Asp-160.						
HKZAR58	HKZAR58R	1223	3 - 266	3398	Met-41 to Gln-47.						
HKZAS59	HKZAS59R	1224	1 - 462	3399	Gln-54 to Leu-59, Glu-70 to Lys-76, Lys-147 to Ser-154.						
HKZAS64	HKZAS64R	1225	1 - 276	3400	Asp-1 to His-35, Pro-67 to His-75.						
HKZAS84	HKZAS84R	1226	2 - 103	3401	Ser-11 to Gly-18.			L0743: 19, L0731: 13, L0744: 12, L0748: 11, L0666: 9, L0751: 9, L0664: 8, H0144: 8, H0333: 7, H0617: 7, L0769: 7, L0662: 7, S0022: 6, H0616: 6, H0087: 6, L0483: 5, H0181: 5, L0517: 5, L0519: 5, L0754: 5, H0677: 5, S0051: 4, S0344: 4, L0663: 4,			

	H0658: 4, L0747: 4, L0750: 4, L0757: 4, H0295: 3, T0049: 3, H0255: 3, L0622: 3, T0039: 3, H0253: 3, H0545: 3, L0163: 3, H0594: 3, H0188: 3, H0673: 3, H0100: 3, S0142: 3, L0372: 3, L0775: 3, L0776: 3, L0657: 3, L0382: 3, L0665: 3, H0672: 3, S0027: 3, L0742: 3, L0752: 3, S0260: 3, H0445: 3, L0596: 3, L0588: 3, L0599: 3, S0420: 2, H0637: 2, S0045: 2, S0132: 2, S0300: 2, S0278: 2, S0222: 2, H0431: 2, H0392: 2, H0599: 2, H0575: 2, H0052: 2, H0309: 2, H0085: 2, H0597: 2, H0544: 2, H0428: 2, H0124: 2, S0036: 2, H0163: 2, H0038: 2, H0413: 2, H0529: 2, L0369: 2, L0763: 2, L0770: 2, L0638: 2, L0764: 2,					
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								L0606: 1, L0629: 1, L0659: 1, L0636: 1, L0542: 1, L0526: 1, L0518: 1, L0782: 1, L0783: 1, H0689: 1, H0690: 1, H0682: 1, H0683: 1, H0659: 1, H0660: 1, S0328: 1, S0330: 1, S0380: 1, H0522: 1, S0004: 1, H0555: 1, L0611: 1, S3014: 1, S0206: 1, L0755: 1, L0758: 1, H0444: 1, L0587: 1, L0589: 1, L0605: 1, L0591: 1, L0608: 1, L0361: 1, L0366: 1, H0665: 1, S0242: 1, S0194: 1, H0543: 1, H0423: 1, S0460: 1, S0456: 1 and H0506: 1.			
HKZAV69	HKZAV69R	1227	2 - 412	3402	Val-6 to Lys-13, Tyr-23 to Asn-33, Lys-46 to Lys-51, Leu-75 to Asn-85, Asp-101 to Glu-106.						
HKZAV72	HKZAV72R	1228	2 - 163	3403	Cys-1 to Val-33, Ala-47 to Glu-54.						
HKZAX48	HKZAX48R	1229	137 - 361	3404		L0771: 3, L0021: 1, S0036: 1, H0689: 1 and					

HKZBB22	HKZBB22R	1230	2 - 520	3405	Arg-5 to Leu-11, Arg-32 to Lys-39, Thr-117 to Lys-122.	H0659: 1.		
HKZBS89	HKZBS89R	1231	1 - 381	3406	Gln-41 to His-48, Leu-55 to Gly-61, Pro-71 to Gly-79, Ala-104 to His-111.			
HLDDQ80	HLDDQ80R	1232	2 - 112	3407				
HLDXE19	HLDXE19R	1233	2 - 190	3408	Ala-2 to Lys-12.			
HLICD55	HLICD55R	1234	2 - 151	3409				
HLJBI32	HLJBI32R	1235	430 - 648	3410				
HLJBI37	HLJBI37R	1236	144 - 398	3411	Pro-77 to Lys-85.			
HLTHA47	HLTHA47R	1237	118 - 411	3412	Pro-82 to Lys-92.			
HLTJA50	HLTJA50R	1238	331 - 585	3413				
HLWAC95	HLWAC95R	1239	2 - 337	3414	Gln-20 to Ser-30.			
HLWDZ38	HLWDZ38R	1240	57 - 275	3415	Phe-45 to Ser-51.			
HLYDI57	HLYDI57R	1241	2 - 238	3416				
HMCFO19	HMCFO19R	1242	131 - 199	3417				
HMCIZ44	HMCIZ44R	1243	67 - 225	3418	Lys-17 to Thr-23.			
HMCJE25	HMCJE25R	1244	3 - 161	3419	Met-40 to Thr-52.			
HMSPB25	HMSPB25R	1245	324 - 145	3420				
HMVBB04	HMVBB04R	1246	136 - 276	3421	Lys-18 to Lys-30.			
HNAAE01	HNAAE01R	1247	2 - 196	3422	Lys-18 to Lys-30.			
HNBUP08	HNBUP08R	1248	127 - 474	3423	Pro-37 to Arg-46, Gln-75 to Gly-81, Pro-83 to Ser-89.	L0766: 5, L0751: 4, H0662: 2, H0253: 2, L0754: 2, L0750: 2, H0170: 1, H0587: 1, H0327: 1, H0688: 1,		

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HNOAE50	HNOAE50R	1260	89 - 577	3435	Thr-5 to Thr-14, Arg-20 to His-25, Arg-35 to Gly-40, Lys-58 to Arg-66, His-101 to Ser-107, Arg-111 to Lys-125, Leu-131 to Glu-140.			
HNOAE65	HNOAE65R	1261	2 - 535	3436	Pro-13 to Arg-21, Ser-42 to Phe-52, Lys-69 to Val-77, Ile-82 to Glu-87, Gly-93 to Gln-99, Val-118 to Asn-124, Lys-143 to Leu-152, Arg-154 to Glu-178.			
HNOAF22	HNOAF22R	1262	67 - 555	3437	Thr-5 to Thr-14, Arg-20 to His-25, Arg-35 to Gly-40, Lys-58 to Arg-66, His-101 to Ser-107, Arg-111 to Lys-125, Leu-131 to Arg-139, Arg-145 to Leu-153.			
HNOAF36	HNOAF36R	1263	2 - 145	3438	Arg-11 to Pro-17.	H0651: 2		
HNOAG34	HNOAG34R	1264	42 - 362	3439				
HNOAG94	HNOAG94R	1265	28 - 177	3440				
HNOAH67	HNOAH67R	1266	2 - 364	3441				
HNOAJ67	HNOAJ67R	1267	3 - 524	3442	Cys-2 to Gly-7.			
HNOAJ76	HNOAJ76R	1268	351 - 536	3443	Trp-6 to Glu-12.	H0134: 9, L0771: 8,		

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	S0218: 1, H0656: 1, S0444: 1, S0360: 1, H0637: 1, H0580: 1, H0619: 1, H0393: 1, L0717: 1, H0497: 1, H0486: 1, T0039: 1, T0114: 1, H0013: 1, H0244: 1, H0635: 1, H0427: 1, H0318: 1, H0178: 1, L0157: 1, H0081: 1, S0051: 1, H0292: 1, S0003: 1, L0483: 1, H0316: 1, H0135: 1, H0634: 1, H0551: 1, H0560: 1, S0440: 1, H0538: 1, L0640: 1, L0796: 1, L0667: 1, L0772: 1, L0373: 1, L0764: 1, L0662: 1, L0363: 1, L0768: 1, L0649: 1, L0388: 1, L0650: 1, L0774: 1, L0775: 1, L0375: 1, L0524: 1, L0653: 1, L0659: 1, L0663: 1, L0664: 1, S0053: 1, H0520: 1, S0126: 1, H0435: 1, H0660: 1, H0672: 1, H0651: 1, H0521: 1.					
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	H0575: 2, H0618: 2, H0253: 2, H0052: 2, H0545: 2, H0123: 2, H0687: 2, H0428: 2, H0100: 2, L0662: 2, L0806: 2, L0657: 2, L0659: 2, L0664: 2, H0691: 2, H0651: 2, L0744: 2, L0592: 2, L0599: 2, L0601: 2, S0040: 1, S0212: 1, H0483: 1, H0255: 1, H0663: 1, S0354: 1, H0208: 1, S6022: 1, H0441: 1, H0357: 1, H0455: 1, H0592: 1, H0331: 1, N0009: 1, H0013: 1, S0280: 1, H0349: 1, H0042: 1, S0049: 1, H0327: 1, H0544: 1, H0178: 1, H0012: 1, H0246: 1, H0024: 1, H0071: 1, H0107: 1, S6028: 1, H0266: 1, T0023: 1, T0006: 1, H0124: 1, S0036: 1, H0264: 1, H0059: 1, H0633: 1, H0647: 1, S0142: 1, L0369: 1, L0371: 1,	
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								L0770: 1, L0769: 1, L0645: 1, L0764: 1, L0768: 1, L0775: 1, L0651: 1, L0525: 1, L0378: 1, L0653: 1, L0518: 1, L0809: 1, L0789: 1, L0792: 1, H0520: 1, S0126: 1, H0659: 1, H0658: 1, H0672: 1, H0539: 1, H0521: 1, S0044: 1, S0028: 1, L0743: 1, L0748: 1, S0031: 1, L0485: 1, H0653: 1, H0665: 1, H0667: 1, S0192: 1 and L0698: 1.			
HNOAQ47	HNOAQ47R	1276	1 - 642	3451	Ser-15 to Glu-23, Val-33 to Gly-40, Arg-47 to Pro-59, Ser-64 to Phe-70, Gly-92 to Lys-97, Lys-155 to Glu-166.						
HNOAR74	HNOAR74R	1277	122 - 400	3452	Pro-5 to Gly-11, Ser-20 to Ser-27.				L0794: 3, H0657: 2, L0766: 2, L0783: 2, L0789: 2, L0777: 2, L0759: 2, H0656: 1, S0116: 1, S0444: 1, S0360: 1, H0431: 1, S0010: 1, H0052: 1, H0596: 1, H0687: 1,		

HNOAR85	HNOAR85R	1278	278 - 562	3453	Ser-48 to Leu-56, Ser-70 to Val-75, Thr-83 to Ala-92.	H0634: 1, L0637: 1, L0648: 1, L0649: 1, L0804: 1, L0774: 1, L0776: 1, L0655: 1, L0606: 1, L0809: 1, H0144: 1, H0698: 1, L0438: 1, H0690: 1, H0660: 1, H0651: 1, L0747: 1, L0749: 1, L0758: 1, L0601: 1, S0242: 1, S0196: 1 and H0543: 1.		
						L0758: 6, H0031: 4, H0341: 3, S0022: 3, S0376: 2, H0586: 2, H0156: 2, H0575: 2, L0769: 2, L0803: 2, L0655: 2, L0809: 2, H0522: 2, S0027: 2, H0445: 2, S0412: 2, H0656: 1, S0358: 1, S0360: 1, H0574: 1, H0486: 1, H0013: 1, H0318: 1, H0327: 1, L0157: 1, H0015: 1, H0083: 1, S0003: 1, S0214: 1, H0039: 1, H0673: 1, H0591: 1, T0067: 1, H0412: 1, H0494: 1, H0529: 1.		

							L0372: 1, L0764: 1, L0794: 1, L0649: 1, L0774: 1, L0775: 1, L0651: 1, L0807: 1, L0657: 1, L0789: 1, L0663: 1, H0519: 1, S0126: 1, H0684: 1, H0660: 1, H0666: 1, H0651: 1, H0518: 1, H0521: 1, S0028: 1, L0747: 1, L0777: 1, L0731: 1, S0194: 1, H0543: 1 and S0424: 1.			
HNOAS07	HNOAS07R	1279	84 - 521	3454	Asn-80 to Gly-86, Glu-133 to Arg-138.					
HNOAS36	HNOAS36R	1280	3 - 254	3455	Leu-1 to Thr-7, Pro-39 to Ser-48, Trp-62 to Thr-68.					
HNOAS92	HNOAS92R	1281	2 - 385	3456	Pro-28 to Tyr-37, Leu-52 to Trp-57, Lys-109 to Leu-114.	H0457: 4, H0441: 3, H0393: 2, H0052: 2, H0620: 2, S0144: 2, H0521: 2, H0341: 1, S0358: 1, H0587: 1, H0632: 1, H0581: 1, H0309: 1, L0471: 1, H0622: 1, H0424: 1, H0213: 1, S0366: 1, H0163: 1, H0132: 1, S0142: 1, H0529: 1, H0547: 1, H0651: 1,				

HNOAT40	HNOAT40R	1282	96 - 317	3457	S3014: 1, L0748: 1, L0777: 1 and L0599: 1. L0794: 5, H0052: 4, H0457: 4, L0438: 4, H0651: 4, H0581: 3, L0777: 3, S0116: 2, S0007: 2, S0222: 2, S0049: 2, N0006: 2, L0163: 2, S6028: 2, L0351: 2, H0130: 2, L0638: 2, L0803: 2, L0805: 2, L0439: 2, L0754: 2, L0750: 2, L0755: 2, H0580: 1, H0645: 1, H0486: 1, H0013: 1, S0346: 1, H0009: 1, L0157: 1, H0567: 1, H0562: 1, H0050: 1, T0010: 1, H0606: 1, H0040: 1, H0063: 1, S0210: 1, L0761: 1, L0667: 1, L0774: 1, L0526: 1, L0532: 1, L0666: 1, L0665: 1, H0658: 1, H0521: 1, H0576: 1, L0753: 1, L0758: 1, L0759: 1, L0593: 1, L0366: 1, H0543: 1 and S0462: 1.		
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HNOAT76	HNOAT76R	1283	2 - 187	3458	Lys-28 to Tyr-49, Arg-75 to Ala-83, Thr-90 to Ala-95, Arg-107 to Asp-114, Arg-137 to Ser-146.			
HNOAV91	HNOAV91R	1284	2 - 439	3459				
HNOBD17	HNOBD17R	1285	98 - 316	3460	Arg-1 to Gly-6, Lys-21 to Gly-29, Gln-51 to Gly-56, Pro-82 to Asp-90, Lys-175 to Ser-180.		L0747: 16, H0651: 10, H0561: 9, L0758: 8, H0046: 7, L0663: 7, S0026: 7, H0656: 6, H0393: 6, H0494: 6, L0774: 6, L0659: 6, L0665: 6, L0750: 6, L0731: 6, L0596: 6, H0543: 6, H0341: 5, H0575: 5, H0529: 5, L0662: 5, L0655: 5, H0539: 5, L0439: 5, L0752: 5, S0114: 4, H0657: 4, H0351: 4, H0581: 4, H0551: 4, H0560: 4, S0372: 4, L0769: 4, L0764: 4, L0776: 4, H0144: 4, H0660: 4, H0648: 4, H0672: 4, S0028: 4, L0749: 4, L0362: 4, H0580: 3, H0497: 3, H0486: 3, H0318: 3,	
HNOBE83	HNOBE83R	1286	2 - 607	3461				

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L0590: 2, H0542: 2, H0422: 2, H0171: 1, L0448: 1, H0556: 1, H0222: 1, S0342: 1, H0650: 1, S0035: 1, H0483: 1, H0671: 1, H0662: 1, H0449: 1, H0459: 1, H0125: 1, S0420: 1, S0354: 1, S0444: 1, S0045: 1, H0443: 1, H0370: 1, H0392: 1, L0622: 1, L0623: 1, T0040: 1, H0013: 1, H0635: 1, H0427: 1, H0156: 1, H0590: 1, S0010: 1, H0052: 1, T0110: 1, H0597: 1, H0546: 1, H0009: 1, H0093: 1, S0051: 1, T0010: 1, H0510: 1, H0267: 1, H0687: 1, H0252: 1, H0428: 1, H0039: 1, H0622: 1, H0181: 1, H0032: 1, H0068: 1, H0598: 1, H0040: 1, H0087: 1, T0067: 1, H0488: 1, L0564: 1, T0042: 1, H0625: 1, H0130: 1, H0641: 1
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HNOBV55	HNOBV55R	1287	111 - 506	3462	Pro-14 to Gly-22, Ile-31 to Ala-36, Lys-53 to Ile-65.	H0633: 1, S0208: 1, S0422: 1, S0426: 1, L0520: 1, L0762: 1, L0770: 1, L0796: 1, L0630: 1, L0646: 1, L0773: 1, L0766: 1, L0381: 1, L0388: 1, L0804: 1, L0650: 1, L0375: 1, L0651: 1, L0784: 1, L0656: 1, L0518: 1, L0519: 1, L0530: 1, L0368: 1, S0053: 1, S0374: 1, H0547: 1, H0689: 1, H0682: 1, H0684: 1, H0670: 1, H0518: 1, S0013: 1, H0704: 1, S0044: 1, H0214: 1, S0404: 1, S0406: 1, H0555: 1, H0576: 1, S0392: 1, L0751: 1, S0031: 1, H0444: 1, S0106: 1, S0011: 1, H0667: 1, S0192: 1, S0242: 1, S0276: 1, L0697: 1 and L0360: 1.			
HNOCE63	HNOCE63R	1288	2 - 394	3463	Val-2 to Leu-20.				





HNOCR44	HNOCR44R	1292	3 - 581	3467	Pro-1 to Lys-10, Phe-31 to Asn-37, Gln-42 to Leu-50, Arg-58 to Gln-65, Leu-86 to Ala-91, Tyr-101 to Ala-111.	L0438: 1, H0547: 1, H0519: 1, H0593: 1, H0435: 1, L0602: 1, S0332: 1, H0522: 1, H0134: 1, S0314: 1, L0439: 1, H0445: 1, S0434: 1, L0485: 1, L0604: 1, L0593: 1, L0594: 1, L0601: 1, H0422: 1 and S0398: 1.		
HNOCU03	HNOCU03R	1293	1 - 258	3468	Glu-1 to Asp-6.			
HNODD77	HNODD77R	1294	204 - 407	3469				
HNODG11	HNODG11R	1295	63 - 320	3470	Ser-47 to Ile-53.			
HNODM92	HNODM92R	1296	269 - 583	3471	Gly-35 to Glu-41.			
HNODP28	HNODP28R	1297	480 - 707	3472				
HNOJA93	HNOJA93R	1298	1 - 453	3473	Gly-13 to Lys-20, Ala-26 to Lys-32, Ala-83 to Leu-88, Gly-128 to Val-135, Phe-142 to Asn-151.			
HNOJB10	HNOJB10R	1299	2 - 391	3474		S0358: 7, L0750: 7, S0360: 6, H0617: 5, S0126: 4, H0545: 3,		

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							L0770: 1, L0769: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0775: 1, L0375: 1, L0556: 1, L0655: 1, L0807: 1, L0656: 1, L0659: 1, L0540: 1, L0783: 1, L0384: 1, S0216: 1, H0144: 1, H0691: 1, H0690: 1, H0684: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, S0378: 1, S0380: 1, H0518: 1, H0555: 1, S3014: 1, S0032: 1, L0741: 1, H0445: 1, L0596: 1, S0192: 1, S0194: 1, S0460: 1 and H0352: 1.			
HNOJB57	HNOJB57R	1300	2 - 355	3475	Arg-8 to Gln-18, Thr-24 to Gly-35, Lys-53 to Gly-61, Pro-77 to Cys-82, Pro-103 to Gln-117.					
HNOJD14	HNOJD14R	1301	2 - 439	3476						
HNOJF20	HNOJF20R	1302	10 - 165	3477	Leu-14 to Arg-20, Ser-29 to Ser-38, Pro-43 to Gly-52.					
HNOJG05	HNOJG05R	1303	288 - 572	3478	Ile-34 to Ala-40.					
HNOJH48	HNOJH48R	1304	2 - 283	3479	Arg-70 to Ser-78.					
									L0748: 17, L0749: 13.	

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HNOJH52	HNOJH52R	1305	3 - 200	3480		L0791: 1, L0664: 1, H0691: 1, H0689: 1, H0683: 1, H0435: 1, H0660: 1, H0648: 1, H0672: 1, H0539: 1, S0380: 1, H0710: 1, S0152: 1, S0013: 1, S0174: 1, H0478: 1, L0743: 1, L0750: 1, L0757: 1, S0031: 1, H0707: 1, L0588: 1, L0592: 1, L0599: 1, L0608: 1, L0604: 1, L0593: 1, H0668: 1, H0667: 1, S0192: 1, S0276: 1, H0422: 1, H0352: 1 and H0712: 1.		
HNOJI82	HNOJI82R	1306	1 - 489	3481	Lys-36 to Gln-48, Gln-56 to Ser-72, Gly-82 to Val-105, Lys-114 to Lys-120, Ser-122 to Cys-133.			
HNOJI85	HNOJI85R	1307	1 - 552	3482	Ala-1 to Ser-6.	L0754: 5, L0731: 4, L0748: 3, L0750: 3, H0411: 2, H0012: 2, H0687: 2, H0644: 2, L0803: 2, H0550: 1, L0021: 1, H0599: 1, L0022: 1, H0042: 1.		



							H0575: 1, H0150: 1, H0620: 1, T0003: 1, H0673: 1, L0662: 1, L0650: 1, L0774: 1, L0375: 1, L0807: 1, L0515: 1, L0659: 1, L0666: 1, S0374: 1, H0694: 1, L0747: 1, L0749: 1, L0779: 1 and L0755: 1.			
HNOIJ20	HNOIJ20R	1308	1 - 261	3483	Lys-19 to Asn-25, Pro-61 to Lys-66.					
HNOIJ26	HNOIJ26R	1309	2 - 385	3484						
HNOJK66	HNOJK66R	1310	1 - 462	3485	Ser-27 to Gly-38, Ser-63 to Trp-72, Trp-79 to Asn-84, Arg-133 to Trp-139.		L0588: 14, S0046: 13, S0045: 12, T0049: 7, H0599: 7, L0662: 7, L0599: 7, H0427: 6, T0048: 6, H0575: 5, L0747: 5, H0254: 4, H0618: 4, H0617: 4, H0124: 4, H0413: 4, H0052: 3, H0024: 3, H0553: 3, H0269: 3, H0412: 3, H0056: 3, H0623: 3, L0764: 3, L0659: 3, L0809: 3, L0666: 3, L0750: 3, L0758: 3, L0600: 3, S0001: 2, H0255: 2, H0661: 2, H0619: 2,			

	S6022: 2, H0587: 2, S0280: 2, H0253: 2, H0150: 2, H0050: 2, H0188: 2, H0644: 2, S0364: 2, S0036: 2, L0369: 2, L0768: 2, L0803: 2, L0775: 2, L0375: 2, L0783: 2, L0438: 2, L0743: 2, L0748: 2, L0439: 2, L0779: 2, L0604: 2, S6024: 1, L0785: 1, S0360: 1, H0208: 1, L0717: 1, H0437: 1, H0369: 1, H0549: 1, H0042: 1, H0309: 1, H0085: 1, H0263: 1, H0123: 1, S0050: 1, L0163: 1, H0266: 1, H0687: 1, H0039: 1, H0622: 1, H0030: 1, H0031: 1, H0163: 1, H0616: 1, H0063: 1, H0264: 1, H0268: 1, L0763: 1, L0536: 1, L0769: 1, L0638: 1, L0643: 1, L0648: 1, L0794: 1, L0804: 1, L0774: 1, L0651: 1, L0378: 1, L0806: 1,	
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							L0555: 1, L0634: 1, L0788: 1, L0663: 1, L0665: 1, S0044: 1, S0190: 1, L0744: 1, L0749: 1, L0731: 1, H0445: 1, L0589: 1, L0361: 1, L0366: 1 and S0458: 1.			
HNOJL59	HNOJL59R	1311	204 - 479	3486			Glu-1 to Ser-9, Pro-60 to Gln-66.			
HNOJM64	HNOJM64R	1312	3 - 428	3487			Gly-105 to Glu-110, Ala-133 to Tyr-142.			
HNOJO55	HNOJO55R	1313	426 - 265	3488			Trp-42 to Glu-50.			
HNOJP42	HNOJP42R	1314	12 - 302	3489			Phe-164 to Leu-170.			
HNOJQ22	HNOJQ22R	1315	1 - 510	3490			Gln-30 to Gly-36,			
HNOKA20	HNOKA20R	1316	2 - 268	3491			Lys-43 to Lys-54, Thr-73 to Ile-79.			
HNOKD74	HNOKD74R	1317	2 - 85	3492			Lys-17 to Leu-27, Thr-39 to Leu-44,			
HNOKG34	HNOKG34R	1318	1 - 510	3493			Asp-62 to Gly-70, Arg-89 to Asp-94, Arg-102 to Gly-113, Lys-127 to Glu-132, Thr-152 to Arg-160.			
HNOKG69	HNOKG69R	1319	188 - 418	3494			Gly-8 to Ala-15, Leu-33 to His-50,			
HNOKG71	HNOKG71R	1320	2 - 331	3495						

HNOKH94	HNOKH94R	1321	214 - 411	3496	Phe-59 to Gly-64, Gly-70 to Gly-84. Thr-20 to Asp-27, His-39 to Thr-44.	L0666: 11, S0358: 8, L0752: 8, L0749: 5, L0362: 5, L0771: 4, L0803: 4, L0528: 4, L0664: 4, L0740: 4, L0754: 4, L0599: 4, L0769: 3, L0662: 3, L0657: 3, L0659: 3, L0663: 3, L0748: 3, L0750: 3, L0757: 3, L0758: 3, H0171: 2, S0360: 2, H0574: 2, H0251: 2, L0483: 2, H0412: 2, H0509: 2, L0770: 2, L0774: 2, L0775: 2, L0665: 2, H0690: 2, S0330: 2, L0755: 2, L0731: 2, L0595: 2, H0624: 1, H0170: 1, H0685: 1, H0656: 1, H0663: 1, H0305: 1, H0589: 1, S0356: 1, S0354: 1, H0580: 1, S0132: 1, S0300: 1, L0717: 1, H0331: 1, H0013: 1, H0108: 1, L0105: 1, H0052: 1, H0546: 1,		
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1158.

HNOKI89	HNOKI89R	1323	2 - 370	3498	Glu-1 to Pro-7, Asp-25 to Leu-31, Arg-54 to Lys-73.	L0663: 2, H0520: 2, H0660: 2, H0436: 2, L0740: 2, L0751: 2, H0445: 2, S0436: 2, S0400: 1, H0351: 1, H0411: 1, H0632: 1, H0575: 1, S0010: 1, H0318: 1, H0596: 1, T0110: 1, H0545: 1, H0046: 1, H0567: 1, H0373: 1, S6028: 1, H0687: 1, H0031: 1, H0553: 1, H0617: 1, H0264: 1, S0386: 1, S0440: 1, H0646: 1, L0761: 1, L0646: 1, L0771: 1, L0662: 1, L0774: 1, L0805: 1, L0653: 1, L0655: 1, L0664: 1, H0519: 1, H0521: 1, H0478: 1, L0756: 1, L0752: 1, L0759: 1, S0434: 1, L0362: 1, S0192: 1 and H0543: 1.		
HNOKN33	HNOKN33R	1324	57 - 284	3499	Pro-7 to Gly-20.	L0751: 9, H0556: 8, H0617: 8, L0777: 6.		

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HNOKO45	HNOKO45R	1325	67 - 171	3500				H0594: 1, H0424: 1, H0213: 1, H0030: 1, H0031: 1, H0598: 1, H0100: 1, L0351: 1, H0560: 1, H0625: 1, H0561: 1, H0633: 1, S0144: 1, S0002: 1, S0426: 1, L0763: 1, L0770: 1, L0772: 1, L0372: 1, L0645: 1, L0662: 1, L0767: 1, L0651: 1, L0378: 1, L0776: 1, L0657: 1, L0783: 1, L0382: 1, L0663: 1, S0052: 1, H0520: 1, H0547: 1, H0670: 1, S0378: 1, S0380: 1, H0522: 1, H0555: 1, S3014: 1, L0743: 1, L0756: 1, L0753: 1, L0759: 1, S0031: 1, S0434: 1, L0581: 1, L0595: 1, L0366: 1 and H0423: 1, L0665: 14, L0666: 13, L0662: 10, L0659: 10, L0646: 9, L0655: 7, L0663: 7, H0648: 7, L0775: 6, L0717: 5, L0657: 5, H0436: 5.
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L0756: 5, L0731: 5, L0766: 4, L0748: 4, S0212: 3, L0598: 3, L0637: 3, L0761: 3, L0664: 3, H0658: 3, L0742: 3, L0439: 3, L0747: 3, L0750: 3, L0755: 3, L0758: 3, L0604: 3, L0595: 3, H0686: 2, L0002: 2, S0376: 2, S0360: 2, S6026: 2, H0351: 2, S0222: 2, H0455: 2, L0471: 2, H0014: 2, T0006: 2, S0440: 2, S0422: 2, L0667: 2, L0641: 2, L0764: 2, L0768: 2, L0774: 2, L0776: 2, L0527: 2, L0636: 2, L0783: 2, S0374: 2, H0539: 2, L0749: 2, L0596: 2, L0589: 2, L0591: 2, L0592: 2, L0599: 2, L0594: 2, L0362: 2, H0170: 1, S0218: 1, H0657: 1, H0656: 1, L0808: 1, S0400: 1, H0402: 1, S0442: 1, S0444: 1, S0408: 1,
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	H0549: 1, H0441: 1, H0415: 1, H0587: 1, L0622: 1, H0486: 1, T0039: 1, H0156: 1, H0318: 1, H0173: 1, H0196: 1, H0597: 1, L0041: 1, H0011: 1, H0057: 1, H0373: 1, H0051: 1, S0051: 1, T0010: 1, H0399: 1, H0061: 1, H0687: 1, H0328: 1, L0055: 1, H0673: 1, H0551: 1, H0413: 1, T0041: 1, H0649: 1, UNKWN: 1, L0762: 1, L0763: 1, L0371: 1, L0769: 1, L0373: 1, L0521: 1, L0364: 1, L0649: 1, L0803: 1, L0650: 1, L0378: 1, L0653: 1, L0606: 1, L0607: 1, L0661: 1, L0512: 1, L0656: 1, L4669: 1, L0517: 1, L0526: 1, L0809: 1, L0647: 1, L2269: 1, L0438: 1, H0519: 1, H0659: 1, H0660: 1, H0651: 1, S0328: 1, S0380: 1,
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							H0710: 1, H0579: 1, S0404: 1, S0406: 1, L0740: 1, L0754: 1, L0777: 1, L0759: 1, S0308: 1, L0605: 1, L0581: 1, L0608: 1, L0601: 1, H0543: 1, S0412: 1, S0424: 1 and H0506: 1.			
HNOKT24	HNOKT24R	1326	98 - 457	3501		Lys-1 to Glu-6, Pro-8 to Gln-21, Ser-43 to Glu-51, Val-61 to Gly-68, Arg-75 to Pro-87, Ser-92 to Phe-98.				
HNOKU52	HNOKU52R	1327	3 - 509	3502		Lys-13 to Ser-41, Lys-57 to Lys-66, Lys-89 to Lys-97, Lys-113 to Ala-118, Pro-131 to Ala-147, Ala-159 to Ala-169.				
HNOKV82	HNOKV82R	1328	3 - 488	3503		Lys-24 to Lys-31, Gly-132 to Glu-137.				
HNOKZ03	HNOKZ03R	1329	216 - 401	3504			H0624: 10, S0192: 8, S0022: 7, S0212: 5, H0031: 4, H0412: 4, S0028: 4, L0747: 4, S0194: 4, H0717: 3, H0427: 3, L0471: 3, S0250: 3, H0039: 3,			

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HNORA56	HNORA56R	1330	2 - 595	3505	Leu-24 to Thr-39, Gln-70 to Glu-81, Arg-86 to Leu-98, Glu-104 to Pro-110, Pro-134 to Arg-157, Val-159 to Asn-166.	H0272: 1, H0334: 1, S0150: 1, L0598: 1, L0767: 1, L0766: 1, L0791: 1, L0792: 1, L0665: 1, T0068: 1, L0438: 1, H0660: 1, S014: 1, L0744: 1, L0754: 1, L0749: 1, L0757: 1, L0759: 1, L0588: 1, L0589: 1, L0591: 1, L0592: 1, S0011: 1, H0665: 1, H0667: 1 and H0506: 1.		
HNORB68	HNORB68R	1331	1 - 210	3506	Gly-1 to Ser-22, Pro-29 to Lys-70.			
HNORC14	HNORC14R	1332	2 - 499	3507		S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0518: 6, L0754: 6, L0752: 6, S0280: 5.		

	H0575: 5, S0358: 4, S0346: 4, L0753: 4, H0170: 3, H0662: 3, S0360: 3, H0427: 3, L0471: 3, H0373: 3, L0638: 3, L0637: 3, L0764: 3, L0774: 3, L0809: 3, L0666: 3, S0310: 3, H0672: 3, H0696: 3, L0731: 3, H0506: 3, H0713: 2, S0408: 2, H0411: 2, H0455: 2, H0574: 2, S0414: 2, H0486: 2, H0036: 2, S0049: 2, H0052: 2, H0327: 2, H0687: 2, H0428: 2, H0553: 2, H0644: 2, H0038: 2, L0520: 2, L0762: 2, L0770: 2, L0653: 2, L0517: 2, S0044: 2, L0442: 1, H0583: 1, L0443: 1, S0110: 1, S0282: 1, S0400: 1, H0661: 1, S0348: 1, S0356: 1, S0444: 1, H0329: 1, S0007: 1, H0619: 1, S6026: 1, S0300: 1, L0717: 1, S6022: 1,				
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HNORF03	HNORF03R	1335	37 - 387	3510	Pro-19 to His-36, Glu-68 to Ala-86.	H0587: 1, H0333: 1, H0575: 1, H0706: 1, H0052: 1, H0309: 1, H0596: 1, H0546: 1, H0545: 1, H0086: 1, H0009: 1, H0284: 1, T0023: 1, L0143: 1, H0551: 1, H0494: 1, S0438: 1, S0002: 1, L0371: 1, L0770: 1, L0769: 1, L0667: 1, L0372: 1, L0646: 1, L0553: 1, L0771: 1, L0774: 1, L0375: 1, L0806: 1, L0382: 1, H0703: 1, H0593: 1, H0682: 1, S0328: 1, S0380: 1, H0555: 1, S0027: 1, L0742: 1, L0747: 1, L0779: 1, L0753: 1, H0445: 1 and H0543: 1.		
						L0439: 6, L0794: 2, L0665: 2, H0691: 2, L0717: 1, H0068: 1, L0761: 1, L0646: 1, L0773: 1, L0662: 1, L0790: 1, L0663: 1, L0438: 1, L0748: 1, L0758: 1, L0592: 1 and		

HNORF04	HNORF04R	1336	1 - 168	3511			L0608: 1.			
HNORF05	HNORF05R	1337	2 - 334	3512			Thr-2 to Phe-7, Gly-18 to Arg-23, Asp-27 to Glu-35.			
HNORF13	HNORF13R	1338	1 - 636	3513			Gly-1 to Thr-10.			
HNORH03	HNORH03R	1339	3 - 680	3514			S0358: 7, L0750: 7, S0360: 6, H0617: 5, S0126: 4, H0545: 3, L0776: 3, S0374: 3, L0748: 3, L0755: 3, L0588: 3, H0422: 3, H0685: 2, H0549: 2, H0550: 2, H0632: 2, H0546: 2, H0424: 2, H0163: 2, H0551: 2, L0665: 2, H0593: 2, H0660: 2, S0330: 2, L0747: 2, L0749: 2, L0777: 2, L0757: 2, S0031: 2, H0556: 1, H0686: 1, H0295: 1, S0430: 1, H0657: 1, H0341: 1, H0662: 1, S0278: 1, H0282: 1, H0592: 1, H0586: 1, H0486: 1, T0039: 1, T0109: 1, H0004: 1, H0581: 1, H0309: 1, H0596: 1, T0110: 1,			

HNORH05	HNORH05R	1340	1 - 498	3515	Arg-13 to Arg-21, Asp-26 to Pro-35,	H0231: 1, H0123: 1, H0620: 1, H0083: 1, H0594: 1, H0687: 1, L0483: 1, H0644: 1, H0361: 1, H0087: 1, H0413: 1, H0059: 1, H0494: 1, S0306: 1, S0440: 1, H0509: 1, H0529: 1, L0762: 1, L0770: 1, L0769: 1, L0372: 1, L0764: 1, L0771: 1, L0773: 1, L0775: 1, L0375: 1, L0556: 1, L0655: 1, L0807: 1, L0656: 1, L0659: 1, L0540: 1, L0783: 1, L0384: 1, S0216: 1, H0144: 1, H0691: 1, H0690: 1, H0684: 1, H0658: 1, H0670: 1, H0672: 1, S0328: 1, S0378: 1, S0380: 1, H0518: 1, H0555: 1, S0314: 1, S0032: 1, L0741: 1, H0445: 1, L0596: 1, S0192: 1, S0194: 1, S0460: 1 and H0352: 1.		
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						Glu-58 to Gly-65, Ser-74 to Pro-82, Gln-107 to Asp-115, Asp-128 to Asn-137, Gln-145 to Arg-154, Gln-161 to Ser-166.				
HNORH35	HNORH35R	1341	20 - 244	3516		Ala-19 to Ser-27, Ser-41 to Val-53.				
HNORJ08	HNORJ08R	1342	3 - 377	3517		Asn-95 to Leu-100.				
HNTRB70	HNTRB70R	1343	144 - 377	3518		Pro-3 to Ile-12, Asn-20 to Glu-25.				
HOCMA02	HOCMA02R A	1344	3 - 530	3519		Ile-121 to Val-129, Ala-136 to Glu-142.				L0742: 10, H0144: 6, H0265: 5, S0116: 4, S0046: 4, S0222: 4, H0556: 3, H0250: 3, H0052: 3, S0027: 3, L0595: 3, S0212: 2, H0306: 2, S0358: 2, H0013: 2, H0618: 2, H0124: 2, H0100: 2, S0053: 2, H0660: 2, S0330: 2, S3012: 2, L0748: 2, L0439: 2, L0745: 2, L0757: 2, H0445: 2, S0342: 1, H0484: 1, H0638: 1, S0007: 1, H0393: 1, H0437: 1, H0549: 1, H0438: 1, H0486: 1.



HOCMB65	HOCMB65R	1346	241 - 456	3521				L0776: 3, H0660: 3, H0309: 2, S0051: 2, L0789: 2, L0663: 2, L0750: 2, L0757: 2, L0759: 2, S0196: 2, S0040: 1, S0001: 1, H0662: 1, H0402: 1, L0005: 1, S0356: 1, H0052: 1, H0596: 1, H0009: 1, T0010: 1, L0483: 1, T0006: 1, H0033: 1, H0031: 1, H0169: 1, H0634: 1, H0538: 1, L0638: 1, L0643: 1, L0764: 1, L0768: 1, L0803: 1, L0804: 1, L0375: 1, L0606: 1, L0659: 1, L0791: 1, L0352: 1, H0547: 1, L0602: 1, H0436: 1, L0742: 1, L0749: 1, L0777: 1, L0752: 1, L0731: 1, L0758: 1, S0394: 1, L0596: 1 and S0412: 1.		
HOCMC08	HOCMC08R A	1347	1 - 426	3522	Lys-18 to Tyr-31, Ile-45 to Asp-50, Trp-78 to Ser-88,					

HOCMF06	HOCMF06R	1348	382 - 588	3523	Pro-102 to Pro-109.				
HOCMF27	HOCMF27R	1349	3 - 395	3524	Glu-1 to Ile-6, Asp-125 to Pro-131.	L0748: 26, H0046: 18, H0510: 7, H0673: 7, L0803: 7, H0169: 6, H0144: 6, L0731: 4, H0574: 3, H0521: 3, H0370: 2, H0615: 2, H0032: 2, T0067: 2, H0509: 2, S0210: 2, L0776: 2, L0749: 2, L0750: 2, L0595: 2, H0170: 1, H0656: 1, H0341: 1, H0151: 1, S0046: 1, S0132: 1, H0619: 1, H0351: 1, S0222: 1, H0497: 1, H0632: 1, H0486: 1, H0156: 1, H0575: 1, H0052: 1, H0596: 1, H0057: 1, H0014: 1, H0355: 1, H0286: 1, H0622: 1, H0165: 1, H0674: 1, H0212: 1, H0038: 1, H0379: 1, H0059: 1, T0041: 1, S0448: 1, H0132: 1, S0150: 1, L0646: 1, L0774: 1, L0527: 1, L0657: 1, L0809: 1,			

								L0519: 1, L0788: 1, L0789: 1, L0666: 1, H0520: 1, H0519: 1, H0658: 1, H0660: 1, S0152: 1, S0013: 1, H0696: 1, S0044: 1, S0174: 1, S0146: 1, H0479: 1, L0744: 1, L0777: 1, L0758: 1, L0581: 1, L0608: 1, L0593: 1 and H0136: 1.		
HOCMF50	HOCMF50RB	1350	49 - 354	3525		Gly-2 to Lys-9, Arg-21 to Glu-32, Pro-58 to Lys-64, Thr-73 to Glu-83.		H0687: 1, L0663: 1 and H0660: 1.		
HOCMF54	HOCMF54R	1351	37 - 285	3526		Lys-1 to Thr-6, Ala-26 to Gly-36, Ser-47 to Gln-55, Leu-72 to Cys-83.		L0794: 7, L0666: 4, L0750: 3, L0664: 2, L0665: 2, H0670: 2, H0660: 2, L0439: 2, L0751: 2, L0756: 2, H0650: 1, H0150: 1, L0769: 1, L0803: 1, L0378: 1, L0657: 1, H0684: 1 and H0555: 1.		
HOCMG37	HOCMG37R	1352	1 - 456	3527		Gly-1 to Asn-9, Glu-31 to Val-39.		H0657: 13, S0360: 12, S0026: 7, H0547: 6, H0171: 4, S0356: 4, H0551: 4, H0560: 4, H0509: 4, H0689: 4, H0543: 4, S0358: 3,		



	H0318: 3, S0440: 3, H0529: 3, H0435: 3, H0665: 3, H0170: 2, H0265: 2, H0556: 2, H0222: 2, S0376: 2, L0717: 2, H0642: 2, H0574: 2, H0575: 2, H0596: 2, S0003: 2, H0615: 2, H0428: 2, H0617: 2, H0413: 2, H0494: 2, H0646: 2, L0369: 2, H0144: 2, H0520: 2, H0519: 2, H0690: 2, H0658: 2, H0660: 2, H0672: 2, L0362: 2, H0542: 2, H0423: 2, H0686: 1, H0650: 1, H0656: 1, S0212: 1, S0029: 1, H0483: 1, H0663: 1, H0664: 1, H0638: 1, S0420: 1, H0580: 1, S0278: 1, H0261: 1, H0438: 1, H0586: 1, T0060: 1, H0069: 1, S0010: 1, H0263: 1, H0327: 1, H0546: 1, H0014: 1, H0083: 1, H0510: 1, S6028: 1, H0266: 1, S0214: 1,
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									H0553: 1, H0068: 1, H0090: 1, H0040: 1, H0634: 1, T0067: 1, H0079: 1, H0561: 1, L0065: 1, H0130: 1, H0647: 1, S0422: 1, L0772: 1, L0648: 1, L0662: 1, L0768: 1, L0375: 1, L0657: 1, L0659: 1, L0518: 1, S0310: 1, L0438: 1, H0670: 1, H0648: 1, S0380: 1, H0521: 1, H0436: 1, L0439: 1, L0749: 1, L0756: 1, L0779: 1, L0731: 1, H0343: 1, L0596: 1, L0588: 1, L0590: 1, L0591: 1, L0603: 1, H0653: 1, S0196: 1, H0422: 1, S0424: 1, S0384: 1 and H0506: 1.					
HOCMI62	HOCMI62R	1353	49 - 348	3528										
HOCMJ47	HOCMJ47R	1354	1 - 510	3529	Lys-23 to Ser-29, Tyr-55 to His-62, Tyr-65 to Leu-71.									
HOCMK20	HOCMK20R	1355	14 - 400	3530	Glu-32 to Ser-38.									
HOCML06	HOCML06R	1356	3 - 707	3531	Gly-1 to Arg-9.									
HOCML66	HOCML66R	1357	2 - 289	3532		L0748: 2, S6028: 1, H0682: 1, H0660: 1,								

HOCMM52	HOCMM52R	1358	130 - 594	3533	Thr-19 to Cys-25, Lys-133 to Ala-138.	S0378: 1 and H0506: 1.		
HOCMO50	HOCMO50R	1359	3 - 425	3534				
HOCMS75	HOCMS75R	1360	3 - 500	3535		H0295: 8, H0617: 7, L0665: 7, H0435: 7, H0592: 6, H0494: 6, L0439: 6, L0751: 6, S0360: 5, S0046: 4, H0587: 4, H0012: 4, H0264: 4, L0662: 4, S0406: 4, H0586: 3, H0620: 3, H0031: 3, H0551: 3, S0440: 3, S0002: 3, L0763: 3, L0648: 3, L0649: 3, L0774: 3, L0659: 3, H0520: 3, H0547: 3, H0689: 3, H0660: 3, S0328: 3, S0330: 3, L0748: 3, L0754: 3, L0750: 3, H0294: 2, H0650: 2, H0341: 2, S0356: 2, S0132: 2, H0370: 2, H0333: 2, H0643: 2, L0623: 2, H0706: 2, H0081: 2, H0039: 2, H0553: 2, H0181: 2, H0068: 2, H0135: 2, H0040: 2.		

			H0646: 2, L0640: 2, L0637: 2, L0641: 2, L0764: 2, L0804: 2, L0806: 2, L0776: 2, L0657: 2, L0809: 2, L0664: 2, H0519: 2, H0682: 2, H0670: 2, H0672: 2, L0744: 2, L0740: 2, S0434: 2, H0677: 2, H0483: 1, H0305: 1, H0638: 1, S0442: 1, S0358: 1, S0376: 1, S0410: 1, H0411: 1, H0550: 1, H0455: 1, H0600: 1, H0101: 1, H0575: 1, H0590: 1, H0618: 1, H0052: 1, H0234: 1, H0597: 1, H0121: 1, L0041: 1, H0123: 1, H0246: 1, H0290: 1, H0292: 1, H0428: 1, H0622: 1, T0023: 1, H0030: 1, H0316: 1, H0059: 1, H0100: 1, S0306: 1, T0090: 1, H0649: 1, S0210: 1, S0426: 1, L0646: 1, L0765: 1, L0771: 1, L0626: 1, L0768: 1,				
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HOCMS87	HOCMS87R	1361	145 - 636	3536	Pro-84 to Pro-91.	L0364: 1, L0766: 1, L0375: 1, L0651: 1, L0378: 1, L0653: 1, L0655: 1, L0558: 1, L0635: 1, L0518: 1, L0383: 1, L0792: 1, L0663: 1, S0006: 1, H0696: 1, S0044: 1, S3014: 1, L0743: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, H0216: 1, H0543: 1, S0424: 1 and H0506: 1. L0743: 9, H0551: 5, H0645: 4, H0050: 4, S0250: 4, S0192: 4, H0624: 3, T0039: 3, H0087: 3, H0547: 3, L0439: 3, H0294: 2, H0370: 2, T0040: 2, H0620: 2, H0024: 2, H0622: 2, H0424: 2, H0031: 2, H0063: 2, L0662: 2, L0776: 2, S0028: 2, L0757: 2, S0242: 2, S0116: 1, H0484: 1, H0483: 1, S0360: 1, H0619: 1, H0550: 1, H0586: 1, H0497: 1, H0486: 1,		
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	H0013: 4, L0770: 4, S0380: 4, L0748: 4, L0758: 4, H0171: 3, H0599: 3, S0010: 3, H0052: 3, S0003: 3, H0615: 3, L0598: 3, L0666: 3, L0665: 3, H0519: 3, H0658: 3, L0749: 3, H0255: 2, S0376: 2, S0444: 2, S0360: 2, H0632: 2, H0327: 2, S0214: 2, H0038: 2, H0040: 2, L0769: 2, L0638: 2, L0662: 2, L0794: 2, L0775: 2, L0776: 2, H0660: 2, S0330: 2, L0744: 2, L0750: 2, L0756: 2, L0757: 2, L0362: 2, L0361: 2, H0170: 1, H0685: 1, S0040: 1, S0342: 1, H0716: 1, S0001: 1, S0282: 1, H0662: 1, S0356: 1, S0358: 1, H0675: 1, S0408: 1, H0580: 1, S0300: 1, H0406: 1, S0278: 1, H0550: 1, H0441: 1, H0431: 1, H0600: 1,	
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	H0331: 1, H0574: 1, T0039: 1, H0156: 1, S0665: 1, S0346: 1, H0263: 1, H0596: 1, H0546: 1, H0150: 1, H0009: 1, H0569: 1, L0471: 1, H0012: 1, H0051: 1, S0051: 1, T0010: 1, H0266: 1, S0250: 1, S0022: 1, H0428: 1, H0119: 1, H0553: 1, H0628: 1, H0617: 1, H0316: 1, H0634: 1, H0412: 1, H0413: 1, H0623: 1, H0494: 1, S0450: 1, H0130: 1, S0142: 1, UNKWN: 1, L0771: 1, L0766: 1, L0803: 1, L0804: 1, L0774: 1, L0784: 1, L0805: 1, L0652: 1, L0653: 1, L0655: 1, L0606: 1, L0527: 1, L0783: 1, L0663: 1, H0547: 1, H0689: 1, H0670: 1, H0648: 1, H0539: 1, H0521: 1, H0696: 1, H0478: 1, S0432: 1, H0540: 1, S0028: 1,				
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HOCOF35	HOCOF35R	1369	221 - 502	3544	Pro-6 to Arg-12, Gln-17 to Leu-22, His-25 to Asp-32, Gly-62 to Lys-69.	S0206: 1, L0746: 1, L0747: 1, S0031: 1, L0689: 1, S0436: 1, S0194: 1, S0276: 1, S0412: 1, H0506: 1 and H0352: 1.		
HOCOF50	HOCOF50R	1370	2 - 409	3545	Thr-16 to Phe-28, Cys-58 to Ser-69, Glu-91 to Glu-99, Lys-113 to Gln-119.			
HOCOO62	HOCOO62R	1371	9 - 539	3546	Gln-37 to Trp-44, Arg-47 to Phe-57, Phe-67 to Ala-83, Pro-94 to Gly-99, Lys-109 to Cys-116, Arg-130 to Ser-137.			
HOCOP52	HOCOP52R	1372	2 - 382	3547	Glu-1 to Val-9.	H0521: 5, S0040: 3, H0039: 3, H0657: 2, H0341: 2, H0553: 2, S0210: 2, H0593: 2, H0445: 2, L0596: 2, S0212: 1, H0661: 1, S0418: 1, S0354: 1, S0358: 1, H0592: 1, T0039: 1, H0635: 1.		
HOCOQ13	HOCOQ13R	1373	46 - 492	3548				

							H0427: 1, H0544: 1, H0546: 1, H0545: 1, H0046: 1, L0471: 1, H0083: 1, S6028: 1, S0338: 1, S0003: 1, H0068: 1, H0038: 1, H0063: 1, H0551: 1, H0100: 1, T0042: 1, H0494: 1, H0561: 1, H0646: 1, L0800: 1, L0649: 1, L0654: 1, L0666: 1, H0660: 1, H0518: 1, S0152: 1, S0146: 1, H0555: 1, S0037: 1, S0028: 1, L0605: 1, L0599: 1, L0603: 1, H0667: 1, H0542: 1, H0543: 1, S0424: 1 and H0506: 1.			
HOCOQ93	HOCOQ93R	1374	448 - 639	3549						
HOCOT70	HOCOT70R	1375	2 - 412	3550						
HOCOV29	HOCOV29R	1376	107 - 268	3551	Lys-9 to Asp-16, Thr-27 to Trp-36.					
HOCPF69	HOCPF69R	1377	1 - 573	3552						
HOCPG38	HOCPG38R	1378	1 - 183	3553	Pro-38 to Gln-43.		H0046: 5, H0144: 5, L0665: 4, L0662: 3, L0766: 3, L0750: 3, L0779: 3, L0759: 3, H0170: 2, S0376: 2, H0329: 2, H0427: 2,			

	L0770: 2, L0529: 2, L0439: 2, L0740: 2, L0751: 2, L0758: 2, S0242: 2, H0223: 1, H0685: 1, S0116: 1, S0282: 1, H0662: 1, S6022: 1, H0574: 1, H0486: 1, H0013: 1, H0098: 1, H0575: 1, H0581: 1, H0052: 1, L0471: 1, H0024: 1, H0510: 1, H0594: 1, H0328: 1, H0169: 1, H0598: 1, H0163: 1, H0646: 1, L0637: 1, L0768: 1, L0794: 1, L0804: 1, L0775: 1, L0653: 1, L0659: 1, L0526: 1, L0783: 1, L0809: 1, L0544: 1, L0647: 1, L0666: 1, L0664: 1, S0374: 1, L0438: 1, H0519: 1, H0670: 1, H0660: 1, H0648: 1, S0378: 1, H0696: 1, S0432: 1, L0777: 1, L0755: 1, S0308: 1, L0591: 1, L0608: 1, S0192: 1, S0194: 1, H0543: 1,	
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HOC PG48	1379	39 - 185	3554		H0423: 1 and S0412: 1.		
HOC PG48R	1380	2 - 217	3555	Leu-9 to Val-14, Glu-41 to Ala-49.	L0731: 7, S0358: 6, L0439: 6, L0769: 5, L0809: 4, L0747: 4, S0354: 3, H0580: 3, H0438: 3, H0581: 3, L0770: 3, L0766: 3, L0774: 3, L0775: 3, L0740: 3, L0749: 3, L0758: 3, L0596: 3, H0677: 3, H0392: 2, H0457: 2, L0471: 2, H0510: 2, H0169: 2, H0551: 2, T0042: 2, H0494: 2, S0438: 2, L0761: 2, L0657: 2, L0783: 2, L0647: 2, L0666: 2, L0565: 2, L0438: 2, H0521: 2, L0748: 2, L0750: 2, L0779: 2, L0752: 2, L0759: 2, L0588: 2, L0605: 2, L0592: 2, L0581: 2, L0615: 1, S0116: 1, H0638: 1, S0418: 1, S0444: 1, S0360: 1, S0222: 1, H0586: 1, H0427: 1, H0618: 1, H0390: 1,		
HOC PH40							
HOC PH40R							

1190

HOCPP65	HOCPP65R	1386	3 - 275	3561	Ala-2 to Ala-9.	L0747: 10, L0805: 6, S0358: 4, L0775: 4, L0655: 4, L0749: 4, H0656: 3, S0440: 3, L0803: 3, L0776: 3, L0789: 3, H0650: 2, H0662: 2, L0471: 2, H0620: 2, H0169: 2, H0616: 2, L0770: 2, L0769: 2, L0761: 2, L0800: 2, L0794: 2, L0804: 2, L0806: 2, L0657: 2, L0809: 2, L0665: 2, H0547: 2, S0126: 2, H0660: 2, H0648: 2, H0521: 2, S0406: 2, L0748: 2, L0750: 2, L0758: 2, L0581: 2, T0002: 1, H0686: 1, H0657: 1, S0418: 1, S0420: 1, S0356: 1, S0442: 1, S0444: 1, H0574: 1, H0559: 1, H0486: 1, L0586: 1, T0114: 1, H0250: 1, H0318: 1, H0014: 1, H0051: 1, H0266: 1, H0292: 1, H0428: 1, H0031: 1, H0673: 1, H0163: 1,		
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HOCPP80	HOCPP80R	1387	3 - 587	3562	Glu-16 to Lys-21, Asn-62 to Arg-68, Asp-94 to Thr-102, Gly-161 to Leu-170.	H0591: 1, H0494: 1, L0640: 1, L0763: 1, L0772: 1, L0773: 1, L0521: 1, L0766: 1, L0774: 1, L0375: 1, L0384: 1, L0793: 1, H0144: 1, H0703: 1, S0374: 1, H0593: 1, H0690: 1, H0659: 1, H0658: 1, S0328: 1, S0152: 1, L0744: 1, L0779: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, S0026: 1, H0136: 1, H0542: 1 and H0422: 1.		
HOCPPQ24	HOCPPQ24R	1388	26 - 358	3563	Ser-9 to Glu-16, Phe-49 to Tyr-58, Asn-102 to Gly-110.	L0754: 4, H0290: 2, L0761: 2, L0794: 2, L0766: 2, L0793: 2, L0731: 2, L0758: 2, L0759: 2, L0594: 2, H0713: 1, H0402: 1, S0418: 1, S0354: 1, H0580: 1, L0717: 1, H0550: 1, H0333: 1.		
HOCPPQ59	HOCPPQ59R	1389	2 - 394	3564				

HOCPR01	HOCPR01R	1392	3 - 536	3567	Ser-11 to Trp-18, Glu-43 to Leu-50, Phe-99 to Arg-120, Ser-136 to Tyr-144, Glu-154 to Cys-163.			H0643: 1, H0574: 1, S0280: 1, H0618: 1, H0052: 1, H0546: 1, H0545: 1, H0014: 1, H0033: 1, H0100: 1, L5566: 1, L0773: 1, L0521: 1, L0803: 1, L0804: 1, L0807: 1, L0788: 1, H0670: 1, H0660: 1, H0521: 1, S0404: 1, S0406: 1, H0436: 1, L0779: 1, H0543: 1 and H0352: 1.		
HOCPR01	HOCPR01R	1392	3 - 536	3567	Ser-11 to Trp-18, Glu-43 to Leu-50, Phe-99 to Arg-120, Ser-136 to Tyr-144, Glu-154 to Cys-163.					
HOCPR29	HOCPR29R	1393	1 - 588	3568	Gln-14 to Lys-19, Glu-79 to Gly-87.			L0748: 9, H0556: 8, L0769: 5, L0766: 4, L0776: 4, H0547: 4, H0521: 4, L0750: 4, L0752: 4, L0758: 4, S0434: 4, H0542: 4, H0657: 3, S0418: 3, H0586: 3, H0587: 3, H0013: 3, H0052: 3,		



	H0083: 3, H0038: 3, H0634: 3, H0494: 3, S0440: 3, L0774: 3, L0775: 3, L0659: 3, H0522: 3, L0744: 3, L0749: 3, L0755: 3, L0759: 3, H0543: 3, S0358: 2, S0476: 2, H0156: 2, H0194: 2, L0471: 2, H0014: 2, H0201: 2, S0003: 2, T0023: 2, H0135: 2, H0551: 2, S0142: 2, L0372: 2, L0662: 2, L0767: 2, L0381: 2, L0383: 2, L0666: 2, L0665: 2, H0658: 2, H0660: 2, S0044: 2, S3014: 2, L0751: 2, L0754: 2, L0596: 2, L0588: 2, L0591: 2, L0592: 2, L0595: 2, L0601: 2, H0423: 2, S0040: 1, S0134: 1, S0298: 1, H0661: 1, H0664: 1, H0125: 1, S0420: 1, S0356: 1, S0354: 1, S0444: 1, S0360: 1, H0619: 1, H0393: 1, H0549: 1,				
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			H0550: 1, S0222: 1, S6014: 1, H0431: 1, H0592: 1, H0574: 1, T0039: 1, T0114: 1, H0075: 1, H0427: 1, H0590: 1, H0004: 1, H0318: 1, H0581: 1, H0251: 1, H0596: 1, T0115: 1, H0009: 1, H0081: 1, H0050: 1, H0024: 1, T0010: 1, H0687: 1, H0288: 1, H0290: 1, H0039: 1, H0622: 1, L0055: 1, H0032: 1, H0090: 1, H0591: 1, H0040: 1, H0063: 1, H0413: 1, T0069: 1, S0438: 1, H0538: 1, S0210: 1, S0426: 1, H0529: 1, L0520: 1, L0762: 1, L0763: 1, L0770: 1, L0374: 1, L0764: 1, L0768: 1, L0386: 1, L0803: 1, L0524: 1, L0806: 1, L0379: 1, L0527: 1, L0657: 1, L0382: 1, L0809: 1, L0788: 1, L0663: 1, S0052: 1, S0374: 1,				
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HOCPR33	HOCPR33R	1394	168 - 335	3569			H0691: 1, H0682: 1, H0435: 1, H0659: 1, S0328: 1, S0330: 1, S0152: 1, H0436: 1, L0611: 1, S0027: 1, S0028: 1, L0747: 1, L0779: 1, L0780: 1, L0731: 1, L0608: 1, S0026: 1, H0653: 1, S0192: 1, S0194: 1, H0422: 1 and S0384: 1.		
HOCPR53	HOCPR53R	1395	62 - 256	3570	Glu-22 to Glu-30, Lys-42 to Glu-51.				
HOCPR55	HOCPR55R	1396	3 - 440	3571	Pro-7 to Ser-36, Cys-49 to Pro-57, Pro-85 to Ala-91, Gly-97 to Pro-109.	L0766: 2, H0660: 2, L0748: 2, L0740: 2, H0328: 1, L0769: 1, L0651: 1, L0653: 1, H0593: 1 and S0126: 1.			
HOCPR77	HOCPR77R	1397	1 - 279	3572					
HOCPR82	HOCPR82R	1398	1 - 102	3573					
HOCPS35	HOCPS35R	1399	3 - 203	3574	Tyr-1 to Gly-39, Ala-41 to Tyr-67.				
HOCPU03	HOCPU03R	1400	1 - 225	3575					
HOCPU30	HOCPU30R	1401	333 - 560	3576					
HOCPU68	HOCPU68R	1402	3 - 269	3577	Ser-49 to Asp-56; Arg-64 to Ile-71, Pro-80 to Ile-89.				
HOCPV29	HOCPV29R	1403	339 - 599	3578	His-10 to Asp-20,	H0620: 2, S0022: 2,			

					Asn-27 to Gly-33.	L0438: 2, T0002: 1, H0393: 1, H0370: 1, H0050: 1, H0373: 1, H0051: 1, H0028: 1, S0036: 1, H0551: 1, H0059: 1, S0150: 1, L0662: 1, S0126: 1, H0435: 1, H0660: 1, S0044: 1 and H0694: 1.		
H0CPV67	H0CPV67R	1404	1 - 390	3579		L0803: 7, L0439: 5, L0809: 4, L0749: 4, L0776: 3, H0520: 3, L0748: 3, L0750: 3, H0543: 3, S0440: 2, L0794: 2, L0804: 2, L0438: 2, H0547: 2, H0660: 2, S0406: 2, L0743: 2, L0777: 2, L0759: 2, H0556: 1, H0656: 1, S0358: 1, S0360: 1, H0637: 1, H0580: 1, H0741: 1, H0733: 1, H0619: 1, H0415: 1, H0600: 1, H0587: 1, H0486: 1, H0013: 1, H0427: 1, S0474: 1, H0581: 1, H0263: 1, H0457: 1, H0615: 1, H0428: 1, H0644: 1, H0032: 1,		

HOCV72	HOCV72R	1405	3 - 209	3580			S0036: 1, H0591: 1, H0634: 1, H0264: 1, S0438: 1, S0422: 1, S0002: 1, L0520: 1, L0766: 1, L0649: 1, L0650: 1, L0774: 1, L0775: 1, L0655: 1, L0790: 1, L0666: 1, L0663: 1, H0723: 1, H0593: 1, H0682: 1, H0670: 1, H0521: 1, S0013: 1, H0631: 1, S0206: 1, L0756: 1, L0731: 1, L0608: 1, S0194: 1 and S0424: 1.		
HOCV56	HOCV56R	1406	2 - 502	3581	Ile-53 to Trp-63, Ala-80 to Gly-89, Arg-134 to Gln-139.		L0752: 19, L0747: 12, L0776: 6, L0750: 5, L0608: 5, L0774: 4, L0805: 4, L0438: 4, L0740: 4, S0210: 3, L0600: 3, S0358: 2, S0222: 2, H0068: 2, H0040: 2, H0413: 2, L0770: 2, L0769: 2, L0772: 2, L0794: 2, L0783: 2, L0809: 2, S0328: 2, L0439: 2, L0745: 2, L0755: 2, L0758: 2, L0590: 2.		

	H0170: 1, H0341: 1, H0483: 1, S0420: 1, S0410: 1, S0300: 1, H0411: 1, H0549: 1, L0622: 1, H0013: 1, H0156: 1, S0010: 1, H0052: 1, H0545: 1, N0006: 1, L0471: 1, H0012: 1, S0336: 1, H0428: 1, T0006: 1, H0606: 1, H0674: 1, L0455: 1, S0036: 1, H0038: 1, H0063: 1, H0494: 1, H0560: 1, L0520: 1, L0762: 1, L0521: 1, L0662: 1, L0767: 1, L0803: 1, L0653: 1, L0659: 1, L0790: 1, L0791: 1, L0666: 1, H0144: 1, S0374: 1, H0689: 1, H0690: 1, H0659: 1, H0660: 1, H0648: 1, S0378: 1, H0134: 1, H0214: 1, L0749: 1, L0731: 1, L0361: 1, S0106: 1, S0011: 1, H0653: 1, S0192: 1, S0242: 1, S0194: 1 and H0422: 1.				
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HOCPW68	HOCPW68R	1407	1 - 297	3582					
HOCPW81	HOCPW81R	1408	2 - 694	3583	Pro-42 to Ser-59, Asp-159 to Asn-168, Tyr-196 to Gly-205.	H0046: 9, L0777: 3, S0376: 2, H0050: 2, S0344: 2, S0126: 2, H0670: 2, S0152: 2, H0521: 2, H0542: 2, H0543: 2, H0341: 1, S0354: 1, S0358: 1, S0408: 1, H0619: 1, H0393: 1, H0592: 1, H0590: 1, S0474: 1, H0546: 1, H0551: 1, H0494: 1, S0440: 1, L0663: 1, H0660: 1, H0672: 1, H0631: 1, S0028: 1, L0757: 1, S0434: 1, L0581: 1 and L0593: 1.			
HOCPX01	HOCPX01R	1409	99 - 296	3584	Glu-24 to Ser-29.	H0617: 5, L0769: 4, L0776: 4, L0751: 4, L0747: 4, L0774: 3, H0685: 2, H0657: 2, H0483: 2, H0486: 2, H0052: 2, H0674: 2, H0494: 2, L0775: 2, L0518: 2, H0682: 2, L0603: 2, H0170: 1, S6024: 1, S0116: 1, H0664: 1, H0306: 1.			
HOCPY70	HOCPY70R	1410	266 - 442	3585					

HOCpz76	HOCpz76R	1411	2 - 460	3586	Pro-93 to Arg-99, Ser-143 to Val-149.	S0420: 1, S0376: 1, S0360: 1, S0007: 1, S0300: 1, S0222: 1, S6014: 1, H0250: 1, L0021: 1, L0022: 1, S0049: 1, H0309: 1, H0150: 1, H0009: 1, S0051: 1, H0188: 1, T0006: 1, H0604: 1, H0673: 1, H0169: 1, H0087: 1, L0065: 1, L0763: 1, L0638: 1, L0773: 1, L0662: 1, L0768: 1, L0766: 1, L0649: 1, L0651: 1, L0657: 1, L0540: 1, L0783: 1, L0809: 1, L0530: 1, L0787: 1, L0789: 1, L0665: 1, S0374: 1, S0126: 1, H0684: 1, H0660: 1, H0539: 1, S0380: 1, H0576: 1, L0741: 1, L0742: 1, L0749: 1, L0750: 1, L0779: 1, L0759: 1, S0031: 1 and L0590: 1.
HOCQA25	HOCQA25R	1412	352 - 543	3587	Ser-25 to Ser-30.	S0358: 45, S0360: 30.



					S0374: 22, S0444: 21, L0662: 21, S0408: 19, L0666: 15, S0380: 14, L0664: 11, L0665: 11, S0026: 11, H0059: 10, S0328: 10, S0330: 10, H0251: 9, L0809: 8, H0670: 8, S0378: 8, H0661: 7, S0354: 7, S0440: 7, L0775: 7, L0659: 7, L0663: 7, H0672: 7, S0406: 7, S0442: 6, S0414: 6, L0657: 6, L0774: 5, H0659: 5, L0754: 5, S0434: 5, S0376: 4, L0483: 4, L0532: 4, H0547: 4, H0660: 4, L0602: 4, L0592: 4, S0460: 4, S0007: 3, H0529: 3, L0520: 3, L0803: 3, H0648: 3, S0404: 3, L0748: 3, L0747: 3, L0750: 3, L0759: 3, H0445: 3, L0608: 3, S0424: 3, H0663: 2, H0664: 2, H0580: 2, L0444: 2, H0156: 2, H0014: 2, H0615: 2, H0688: 2.
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	H0039: 2, H0644: 2, H0617: 2, H0032: 2, H0673: 2, L0763: 2, L0646: 2, L0804: 2, L0776: 2, H0627: 2, L0777: 2, L0758: 2, L0362: 2, H0506: 2, L0615: 1, H0685: 1, H0656: 1, L0778: 1, L0785: 1, H0341: 1, H0669: 1, H0662: 1, H0402: 1, S0356: 1, T0008: 1, S0476: 1, H0351: 1, H0299: 1, H0486: 1, H0013: 1, L0021: 1, T0082: 1, H0581: 1, H0421: 1, H0235: 1, H0596: 1, L0040: 1, H0178: 1, H0563: 1, H0012: 1, H0328: 1, H0031: 1, H0068: 1, H0135: 1, T0067: 1, H0264: 1, H0488: 1, H0100: 1, H0494: 1, S0352: 1, S0448: 1, S0450: 1, H0509: 1, S0472: 1, H0647: 1, H0695: 1, L0764: 1, L0765: 1, L0767: 1, L0768: 1,	
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								L0364: 1, L0766: 1, L5568: 1, L0552: 1, L0376: 1, L0653: 1, L0655: 1, L0529: 1, H0144: 1, H0520: 1, H0690: 1, H0682: 1, H0684: 1, H0435: 1, H0658: 1, S0392: 1, H0478: 1, H0626: 1, H0631: 1, L0744: 1, L0751: 1, L0749: 1, L0779: 1, L0755: 1, S0308: 1, H0707: 1, L0596: 1, L0593: 1 and S0384: 1.				
HOCQA26	HOCQA26R	1413	1 - 384	3588								
HOCQA37	HOCQA37R	1414	13 - 276	3589								
HOCQA86	HOCQA86R	1415	3 - 455	3590								
HOCQB18	HOCQB18R	1416	3 - 473	3591	Met-1 to Leu-6, Gly-19 to Lys-26, Ala-32 to Lys-38, Ala-89 to Leu-94, Gly-134 to Val-141.							
HOCQB48	HOCQB48R	1417	1 - 588	3592	Met-36 to Pro-42, Pro-49 to Thr-55, Leu-104 to Met-110, Trp-112 to Asn-117, Glu-122 to Tyr-134, Gln-142 to Ser-148, Leu-174 to Tyr-180.							

HOCQC57	HOCQC57R	1418	1 - 237	3593		L0766: 6, L0752: 5, L0794: 4, H0039: 3, H0622: 3, S0440: 3, L0770: 3, L0809: 3, H0547: 3, L0747: 3, S0356: 2, H0587: 2, H0427: 2, H0156: 2, H0015: 2, H0031: 2, L0771: 2, L0662: 2, L0768: 2, L0804: 2, L0659: 2, L0666: 2, L0664: 2, L0438: 2, H0660: 2, L0740: 2, L0754: 2, L0745: 2, L0749: 2, L0731: 2, L0593: 2, H0624: 1, H0657: 1, H0656: 1, H0370: 1, H0438: 1, T0040: 1, L0586: 1, T0114: 1, H0036: 1, S0010: 1, H0052: 1, H0545: 1, H0050: 1, H0014: 1, H0373: 1, L0163: 1, H0051: 1, H0071: 1, T0010: 1, H0030: 1, H0316: 1, H0598: 1, H0090: 1, S0038: 1, H0561: 1, H0509: 1, H0130: 1, H0633: 1, S0002: 1,		
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								L0500: 1, L0761: 1, L0764: 1, L0773: 1, L0649: 1, L0375: 1, L0805: 1, L0653: 1, L0544: 1, L0545: 1, L0792: 1, L0663: 1, L0665: 1, H0670: 1, H0666: 1, H0521: 1, L0743: 1, L0439: 1, L0777: 1, L0755: 1, L0758: 1, L0596: 1, L0589: 1, L0592: 1, H0216: 1, H0542: 1, H0423: 1 and H0352: 1.			
HOCQC71	HOCQC71R	1419	216 - 521	3594	Thr-21 to Gly-28, Lys-36 to Gly-43, Ala-73 to His-85.						
HOCQD10	HOCQD10R	1420	2 - 529	3595							
HOCQD19	HOCQD19R	1421	3 - 335	3596	Gly-70 to Gly-79.						
HOCQD38	HOCQD38R	1422	290 - 550	3597							

H0710: 9, H0556: 8, L0666: 8, H0521: 8, L0751: 8, L0758: 8, L0592: 8, H0486: 7, H0318: 7, L0774: 7, L0664: 7, S0360: 6, H0510: 6, L0731: 6, H0423: 6, H0638: 5, H0580: 5, H0427: 5, H0050: 5, H0271: 5, L0800: 5, H0670: 5, H0552: 5, L0581: 5, H0506: 5, H0402: 4, S0358: 4, H0179: 4, L0768: 4, L0803: 4, L0438: 4, H0547: 4, H0658: 4, S0328: 4, H0555: 4, H0436: 4, L0747: 4, L0750: 4, L0777: 4, L0759: 4, L0593: 4, S0134: 3, H0657: 3, H0663: 3, H0305: 3, S0420: 3, H0619: 3, H0635: 3, H0098: 3, H0575: 3, S0003: 3, H0264: 3, H0413: 3, H0623: 3, H0494: 3, H0641: 3, L0763: 3, L0667: 3, L0794: 3, L0775: 3,
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L0651: 3, L0806: 3, L0653: 3, L0776: 3, L0655: 3, H0519: 3, H0690: 3, S0330: 3, L0602: 3, S0404: 3, L0779: 3, L0752: 3, L0755: 3, H0542: 3, S0114: 2, S0282: 2, H0661: 2, S0356: 2, S0376: 2, S0132: 2, H0411: 2, H0431: 2, H0586: 2, H0013: 2, H0069: 2, S0280: 2, L0021: 2, H0599: 2, H0046: 2, H0014: 2, H0051: 2, H0266: 2, H0416: 2, H0687: 2, H0316: 2, H0634: 2, H0551: 2, T0042: 2, S0440: 2, H0646: 2, S0002: 2, H0529: 2, L0769: 2, L0638: 2, L0761: 2, L0372: 2, L0646: 2, L0641: 2, L0648: 2, L0804: 2, L0784: 2, L0606: 2, L0527: 2, L0663: 2, S0374: 2, L0565: 2, H0711: 2, S0380: 2, H0696: 2, S3014: 2,
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L0744: 2, L0740: 2, L0746: 2, L0757: 2, H0445: 2, L0591: 2, H0543: 2, H0422: 2, H0220: 1, H0222: 1, H0685: 1, S0430: 1, H0650: 1, L0808: 1, S0116: 1, S0212: 1, S0001: 1, H0662: 1, H0459: 1, S0418: 1, S0408: 1, H0393: 1, L0717: 1, H0369: 1, H0261: 1, H0392: 1, H0409: 1, H0574: 1, H0632: 1, L0623: 1, T0039: 1, T0109: 1, H0250: 1, H0036: 1, S0474: 1, T0071: 1, H0421: 1, S0049: 1, H0052: 1, H0309: 1, H0204: 1, H0597: 1, H0544: 1, H0546: 1, H0024: 1, H0200: 1, H0071: 1, T0010: 1, H0083: 1, H0355: 1, S0318: 1, S0250: 1, H0039: 1, L0483: 1, H0031: 1, H0553: 1, H0644: 1, H0182: 1, H0032: 1, H0388: 1,					
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HOCQD42	HOCQD42R	1423	1 - 315	3598	Ala-1 to Gly-8, Leu-26 to Ser-40, Pro-57 to Leu-95.	H0040: 1, H0380: 1, H0280: 1, H0560: 1, H0561: 1, L0065: 1, H0652: 1, S0426: 1, L0369: 1, L0639: 1, L0637: 1, L0772: 1, L0642: 1, L0765: 1, L0378: 1, L0805: 1, L0607: 1, L0629: 1, L0384: 1, L0647: 1, L0789: 1, L0790: 1, S0052: 1, S0216: 1, H0144: 1, H0593: 1, S0126: 1, H0689: 1, H0682: 1, H0435: 1, H0659: 1, H0660: 1, H0648: 1, H0672: 1, H0518: 1, S0152: 1, S0406: 1, H0187: 1, H0576: 1, S0392: 1, H0478: 1, H0345: 1, S0027: 1, L0756: 1, S0031: 1, H0444: 1, H0707: 1, S0434: 1, L0599: 1, S0011: 1, H0668: 1, H0667: 1, S0196: 1 and L0697: 1.		
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HOCQD45	HOCQD45R	1424	38 - 475	3599	Arg-11 to Arg-20, Glu-61 to Ser-66, Pro-114 to Ala-125.			
HOCQE35	HOCQE35R	1425	3 - 410	3600				
HOCQG94	HOCQG94R	1426	3 - 317	3601	Glu-58 to Arg-63.			
HOCQH81	HOCQH81R	1427	144 - 335	3602				
HOCQI31	HOCQI31R	1428	1 - 324	3603	Lys-21 to His-26, Arg-47 to Val-55, Ser-65 to Gly-70, Ala-76 to Gly-81.	S0126: 23, H0038: 16, S0372: 15, H0550: 12, H0031: 12, H0545: 10, L0659: 10, S0360: 9, L0662: 9, L0757: 9, L0758: 9, H0551: 8, S0322: 8, H0431: 7, L0666: 7, L0750: 7, H0486: 6, H0546: 6, S0440: 6, L0776: 6, H0549: 5, H0620: 5, L0664: 5, H0593: 5, H0672: 5, H0539: 5, S0380: 5, H0555: 5, L0747: 5, S0358: 4, S0007: 4, H0409: 4, S0010: 4, H0039: 4, H0622: 4, H0616: 4, L0769: 4, L0641: 4, L0655: 4, H0696: 4, L0731: 4, S0040: 3, S0212: 3, S0418: 3, S0045: 3, S0280: 3, H0012: 3, H0090: 3,		

	L0637: 3, L0771: 3, L0775: 3, L0651: 3, L0653: 3, H0690: 3, H0660: 3, S0328: 3, S0044: 3, H0295: 2, T0049: 2, H0662: 2, S0356: 2, S0354: 2, S0376: 2, L0717: 2, H0441: 2, H0333: 2, H0574: 2, H0257: 2, H0485: 2, H0575: 2, H0251: 2, H0544: 2, L0471: 2, H0014: 2, S0051: 2, H0266: 2, H0687: 2, S0003: 2, H0328: 2, H0615: 2, T0067: 2, H0412: 2, H0059: 2, S0016: 2, H0647: 2, S0210: 2, L0598: 2, L0520: 2, L0638: 2, L0796: 2, L0772: 2, L0764: 2, L0519: 2, L0790: 2, H0519: 2, H0689: 2, H0710: 2, S0406: 2, S3014: 2, S0028: 2, S0206: 2, L0740: 2, S0031: 2, L0604: 2, L0601: 2, S0192: 2, S0342: 1, L0785: 1,	
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	S0116: 1, S0298: 1, H0663: 1, S0420: 1, S0410: 1, S0468: 1, H0369: 1, H0453: 1, H0370: 1, H0392: 1, H0602: 1, H0587: 1, T0039: 1, H0013: 1, H0004: 1, H0052: 1, H0309: 1, H0046: 1, H0041: 1, H0081: 1, H0011: 1, H0049: 1, T0079: 1, H0375: 1, S0250: 1, S0214: 1, H0252: 1, H0428: 1, T0006: 1, H0032: 1, H0708: 1, H0316: 1, H0598: 1, H0400: 1, H0100: 1, H0494: 1, L0475: 1, S0014: 1, S0015: 1, H0625: 1, S0382: 1, H0646: 1, L0762: 1, L0763: 1, L0630: 1, L0646: 1, L0768: 1, L0649: 1, L0806: 1, L0656: 1, L0809: 1, L0647: 1, L0663: 1, L0665: 1, S0374: 1, H0691: 1, H0547: 1, H0682: 1, H0521: 1, S0027: 1.	
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HOCQJ35	HOCQJ35R	1429	61 - 546	3604	Leu-16 to Pro-22, Val-30 to Asp-36.	L0748: 1, L0756: 1, L0777: 1, L0752: 1, L0755: 1, H0343: 1, H0707: 1, L0605: 1, H0668: 1, S0196: 1 and H0506: 1.		
						H0046: 12, L0771: 7, L0774: 3, L0651: 3, L0806: 3, L0666: 3, L0565: 3, L0748: 3, S0444: 2, S0408: 2, H0393: 2, L0372: 2, L0662: 2, L0766: 2, L0659: 2, L0664: 2, L0744: 2, L0731: 2, H0294: 1, S0442: 1, S0278: 1, H0549: 1, L0021: 1, H0085: 1, H0234: 1, H0596: 1, H0597: 1, H0546: 1, H0024: 1, S0003: 1, H0252: 1, H0383: 1, H0674: 1, H0068: 1, H0487: 1, H0413: 1, T0069: 1, H0100: 1, H0494: 1, H0625: 1, S0352: 1, L0761: 1, L0772: 1, L0646: 1, L0800: 1, L0764: 1, L0773: 1, L0794: 1.		

HOCQM24	HOCQM24R	1430	3 - 230	3605	Gly-2 to Gly-12, Gly-14 to Asn-28, Met-32 to Gly-49, Lys-54 to Phe-76.	L0649: 1, L0803: 1, L0805: 1, L0653: 1, L0515: 1, L0367: 1, L0665: 1, S0374: 1, H0684: 1, H0660: 1, S0328: 1, S0044: 1, S0404: 1, L0740: 1, L0747: 1, L0757: 1, L0758: 1, S0260: 1 and S0276: 1.		
HODAF78	HODAF78R	1431	2 - 76	3606				
HODBT55	HODBT55R	1432	234 - 395	3607	Ala-1 to Ser-8.	H0328: 1 and H0435: 1.		
HODCT68	HODCT68R	1433	266 - 484	3608	Gln-1 to Pro-16.	L0493: 4, L0794: 3, H0497: 2, H0038: 2, L0766: 2, L0809: 2, L0779: 2, L0777: 2, L0759: 2, L0601: 2, H0170: 1, S0114: 1, H0341: 1, H0125: 1, S0046: 1, H0592: 1, H0587: 1, H0559: 1, H0156: 1, H0328: 1, H0616: 1, H0386: 1, H0538: 1, H0529: 1, L0769: 1, L0764: 1.		

HODCZ52	HODCZ52R	1434	2 - 139	3609				L0775: 1, L0666: 1, H0659: 1, H0518: 1, L0741: 1, L0439: 1, L0747: 1, L0593: 1, L0594: 1, H0665: 1 and H0667: 1. AR089: 19, AR104: 18, AR060: 12, AR096: 7, AR055: 4, AR061: 3 L0751: 29, H0549: 17, H0550: 17, L0666: 9, L0747: 8, H0689: 7, H0690: 7, H0682: 7, H0615: 6, H0670: 6, H0328: 5, H0150: 4, H0660: 4, S0330: 4, S0044: 4, L0362: 4, H0597: 3, H0688: 3, L0764: 3, L0657: 3, L0809: 3, L0753: 3, L0758: 3, L0759: 3, H0431: 2, H0046: 2, T0067: 2, H0059: 2, H0647: 2, L0774: 2, L0805: 2, L0783: 2, L0438: 2, H0593: 2, H0648: 2, H0672: 2, S0328: 2, S0404: 2, L0744: 2, L0779: 2,		
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HODDI57	HODDI57R	1435	3 - 194	3610	Gly-7 to Glu-41.	S0436: 2, H0662: 1, S0442: 1, S0444: 1, S0408: 1, S0007: 1, H0461: 1, H0085: 1, H0009: 1, S0024: 1, H0188: 1, H0039: 1, H0604: 1, H0424: 1, H0169: 1, H0674: 1, L0520: 1, L5569: 1, L0803: 1, L0804: 1, L0775: 1, L0658: 1, L0634: 1, L0542: 1, L0528: 1, L2269: 1, L0663: 1, L0665: 1, H0684: 1, H0659: 1, H0658: 1, S0380: 1, S0406: 1, H0555: 1 and L0780: 1.		
						L0794: 4, L0803: 4, H0328: 3, L0779: 3, L0515: 2, L0809: 2, H0144: 2, L0754: 2, L0756: 2, L0759: 2, H0171: 1, S0282: 1, H0346: 1, S0222: 1, H0441: 1, H0486: 1, H0069: 1, H0052: 1, H0544: 1, H0266: 1, L0598: 1, L0638: 1, L0766: 1, L0650: 1,		



HODE147	HODE147R	1436	11 - 295	3611	Leu-7 to Thr-16.	L0774: 1, L0805: 1, L0776: 1, L0657: 1, L0559: 1, L0659: 1, L0543: 1, L0438: 1, H0682: 1, S0328: 1, L0745: 1, L0750: 1, L0777: 1, L0752: 1, L0758: 1, H0343: 1 and H0665: 1.		
						L0754: 20, L0759: 6, L0794: 4, H0615: 3, L0438: 3, S0126: 3, S0360: 2, H0411: 2, H0050: 2, H0163: 2, S0422: 2, L0665: 2, L0748: 2, L0747: 2, L0749: 2, L0780: 2, L0755: 2, H0595: 2, L0361: 2, H0170: 1, H0686: 1, H0638: 1, S0418: 1, S0358: 1, S0376: 1, H0586: 1, H0587: 1, H0009: 1, H0024: 1, H0328: 1, H0428: 1, H0625: 1, S0210: 1, L0598: 1, L0667: 1, L0764: 1, L0662: 1, L0766: 1, L0649: 1, L0650: 1, L0805: 1, L0655: 1,		

							L0789: 1, L0663: 1, H0144: 1, S0330: 1, S0028: 1, L0751: 1, L0750: 1, L0731: 1, L0758: 1 and L0605: 1.			
HODEO42	HODEO42R	1437	1 - 54	3612						
HODEP78	HODEP78R	1438	187 - 432	3613			L0803: 7, L0439: 4, L0663: 3, L0749: 3, H0615: 2, L0769: 2, L0794: 2, L0774: 2, L0748: 2, L0777: 2, L0752: 2, L0142: 1, H0646: 1, L0767: 1, L0804: 1, L0784: 1, L0805: 1, L0789: 1, L0666: 1, L0438: 1, H0670: 1 and L0589: 1.			
HODEQ42	HODEQ42R	1439	349 - 444	3614	Asn-1 to Ser-6, Thr-22 to Asn-32.		H0615: 1 and S0031: 1.			
HODES57	HODES57R	1440	92 - 289	3615						
HODES60	HODES60R	1441	2 - 421	3616			L0662: 2, H0615: 1, L0761: 1, L0791: 1, H0519: 1, L0752: 1 and L0758: 1.			
HODEU47	HODEU47R	1442	153 - 347	3617	Ser-1 to Ser-9, Asp-15 to Ala-21.		H0615: 2			
HODEV69	HODEV69R	1443	370 - 546	3618						
HODEW54	HODEW54R	1444	374 - 568	3619			H0328: 1 and H0615: 1.			

HODEW79	HODEW79R	1445	309 - 566	3620				
HODEX45	HODEX45R	1446	220 - 423	3621			H0615: 2 and L0532: 1.	
HODEX69	HODEX69R	1447	58 - 231	3622			H0615: 4 and L0659: 1.	
HODEX79	HODEX79R	1448	1 - 432	3623				
HODFC44	HODFC44RP 00	1449	1 - 207	3624	Ala-9 to Asp-21, Thr-31 to Arg-37.		L0747: 16, L0754: 10, L0751: 7, L0757: 7, H0657: 6, L0748: 6, L0771: 5, H0659: 5, L0740: 5, L0755: 5, H0594: 4, L0744: 4, H0341: 3, S0358: 3, S0278: 3, H0333: 3, H0615: 3, S0366: 3, L0520: 3, L0775: 3, L0517: 3, S0374: 3, S0328: 3, L0731: 3, H0136: 3, T0002: 2, S0218: 2, S0116: 2, S0354: 2, S0376: 2, H0637: 2, S0045: 2, H0370: 2, L0622: 2, H0156: 2, H0599: 2, H0545: 2, H0266: 2, H0039: 2, H0617: 2, H0132: 2, L0769: 2, L0665: 2, H0672: 2, H0539: 2, H0134: 2, L0756: 2, L0752: 2,	

L0758: 2, H0624: 1, H0170: 1, H0265: 1, S6024: 1, H0656: 1, H0255: 1, H0661: 1, H0125: 1, H0192: 1, S0418: 1, S0420: 1, S0360: 1, H0580: 1, H0393: 1, S0300: 1, H0411: 1, H0369: 1, H0261: 1, S0222: 1, L0623: 1, S0280: 1, H0618: 1, H0318: 1, H0581: 1, H0421: 1, L0738: 1, H0086: 1, L0471: 1, H0024: 1, H0082: 1, L0043: 1, S0214: 1, H0031: 1, H0673: 1, H0068: 1, H0038: 1, H0634: 1, H0087: 1, T0067: 1, H0412: 1, H0100: 1, H0512: 1, S0144: 1, S0142: 1, S0344: 1, S0422: 1, H0517: 1, L0762: 1, L0763: 1, L0761: 1, L0764: 1, L0768: 1, L0766: 1, L0649: 1, L0774: 1, L0651: 1, L0776: 1, L0655: 1, L0526: 1,							
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							L0518: 1, L0783: 1, L0809: 1, L0666: 1, L0663: 1, H0144: 1, H0593: 1, H0682: 1, H0648: 1, S0044: 1, H0214: 1, L0439: 1, L0749: 1, L0750: 1, L0753: 1, H0444: 1, H0445: 1, H0595: 1, L0581: 1, L0593: 1 and H0542: 1.			
HODFD90	HODFD90R	1450	3 - 281	3625	Ser-22 to Gln-38.		L0794: 3, L0776: 2, S0358: 1, H0615: 1, H0538: 1, L0662: 1, L0803: 1, L0805: 1, L0791: 1, L0663: 1, S0374: 1, H0658: 1 and L0758: 1.			
HODFE81	HODFE81R	1451	296 - 433	3626						
HODFI68	HODFI68R	1452	293 - 409	3627			L0766: 2, H0328: 1 and H0615: 1.			
HODFI14	HODFI14R	1453	2 - 259	3628	Phe-45 to Tyr-60, Arg-67 to Glu-74.					
HODFI52	HODFI52R	1454	97 - 225	3629	Pro-18 to Pro-23, Pro-37 to Val-42.		H0328: 1 and H0615: 1.			
HODFK30	HODFK30RA	1455	1 - 69	3630						
HODFK89	HODFK89R	1456	16 - 324	3631	Lys-69 to Asp-81.					
HODFL50	HODFL50R	1457	1 - 165	3632			H0615: 2, H0370: 1, H0328: 1 and L0749: 1.			

HODFL75	HODFL75R	1458	304 - 393	3633	Ala-2 to Trp-9.	H0615: 2		
HODFO16	HODFO16R	1459	251 - 565	3634		L0666: 3, H0615: 2, S0116: 1, H0675: 1, H0012: 1, L0055: 1, S0438: 1, L0763: 1, L0667: 1, L0649: 1, L0803: 1, L0804: 1, L0659: 1, H0689: 1, H0659: 1, L0752: 1 and S0026: 1.		
HODFO64	HODFO64R	1460	1 - 195	3635	Glu-12 to Gly-27, Gln-37 to Tyr-49.			
HODFP51	HODFP51R	1461	11 - 439	3636	His-33 to Leu-39, Gly-49 to Glu-56, Ser-60 to Lys-143.			
HODFQ19	HODFQ19R	1462	1 - 519	3637	Leu-33 to Val-40, Lys-144 to Glu-152.			
HODFQ37	HODFQ37R	1463	2 - 535	3638	His-1 to Lys-12, Gln-17 to Leu-27, Val-69 to Asp-76, Asp-122 to Trp-128, Asp-141 to Glu-146, Ser-155 to His-164.			
HODFR72	HODFR72R	1464	84 - 512	3639		H0615: 2		
HODFU24	HODFU24R	1465	372 - 695	3640				
HODFU78	HODFU78R	1466	2 - 130	3641				
HODFV22	HODFV22R	1467	291 - 467	3642	Pro-1 to Asp-7.			
HODFV60	HODFV60R	1468	7 - 168	3643		H0328: 1, H0615: 1 and L0365: 1.		
HODFV69	HODFV69R	1469	64 - 210	3644		H0615: 3, H0693: 2,		

						H0266: 1, S0002: 1, L0790: 1, H0547: 1, S0152: 1, H0521: 1, H0696: 1, L0366: 1, S0194: 1 and S0276: 1.			
HODFV79	HODFV79R	1470	360 - 623	3645					
HODFV82	HODFV82R	1471	14 - 154	3646					
HODFV95	HODFV95R	1472	587 - 718	3647					
HODFY38	HODFY38R	1473	22 - 309	3648	Lys-8 to Tyr-26, Thr-67 to Met-73.	H0615: 2, S0444: 1, L0438: 1 and L0439: 1.			
HODGA29	HODGA29R	1474	186 - 308	3649	Val-1 to Ser-9, Gln-22 to Ser-29.				
HODGB69	HODGB69R	1475	3 - 95	3650					
HODGB78	HODGB78R	1476	91 - 225	3651	Thr-14 to Asn-19.				
HODGE22	HODGE22R	1477	129 - 407	3652					
HODGH30	HODGH30R	1478	25 - 132	3653	Thr-7 to Ser-14, Pro-28 to Gly-36.				
HODGH43	HODGH43R	1479	36 - 128	3654	His-8 to Gly-18, Phe-25 to Gly-30.				
HODGH65	HODGH65R	1480	2 - 166	3655		H0615: 2			
HODGL65	HODGL65R	1481	127 - 300	3656		L0754: 2, L0756: 2, H0615: 1, L0438: 1 and L0747: 1.			
HODGN53	HODGN53R	1482	2 - 583	3657	Lys-1 to Thr-7, Ser-13 to Arg-33, Val-56 to Lys-63, Phe-143 to Thr-148.	L0741: 4, H0615: 2, L0769: 2, L0793: 2, H0328: 1, S0144: 1, L0794: 1, L0499: 1, L0805: 1, L0438: 1 and L0755: 1.			

HODGO02	HODGO02R	1483	361 - 561	3658				
HODGO09	HODGO09R	1484	1 - 348	3659			H0615: 2 and L0779: 1.	
HODGO21	HODGO21R	1485	2 - 193	3660	Glu-23 to Val-28, Arg-56 to Ser-64.			
HODGP53	HODGP53R	1486	1 - 198	3661				
HODGQ52	HODGQ52R	1487	9 - 131	3662				
HODGS83	HODGS83R	1488	205 - 354	3663				
HODGW91	HODGW91R	1489	182 - 3	3664	Lys-1 to Gly-12, Pro-25 to Thr-37, Ser-46 to Gly-51.			
HODGX46	HODGX46R	1490	358 - 513	3665			H0615: 3 and L0766: 1.	
HODGX91	HODGX91R	1491	219 - 572	3666				
HODGY90	HODGY90R	1492	379 - 573	3667				
HODGZ63	HODGZ63R	1493	1 - 504	3668	Pro-30 to Asn-35, Arg-39 to Asn-57, Ser-62 to Ile-67, Glu-73 to Arg-81, Lys-89 to Lys-99.		L0805: 19, L0794: 13, L0766: 12, L0740: 11, L0747: 11, L0779: 11, L0803: 8, H0521: 7, L0439: 7, L0731: 7, L0605: 7, S0474: 6, S0422: 6, L0769: 6, L0776: 5, L0665: 5, L0748: 5, L0758: 5, H0618: 4, S0010: 4, L0771: 4, L0789: 4, S3014: 4, H0341: 3, H0615: 3, L0659: 3, S0052: 3, L0438: 3,	





	S0007: 3, L0646: 3, L0776: 3, L0750: 3, H0662: 2, S0444: 2, S0222: 2, L0483: 2, L0764: 2, L0648: 2, L0775: 2, L0665: 2, H0648: 2, L0779: 2, S0031: 2, S0110: 1, H0638: 1, S0418: 1, S0376: 1, S0408: 1, L0717: 1, H0331: 1, H0574: 1, S0414: 1, H0492: 1, H0156: 1, L0021: 1, S0049: 1, H0310: 1, H0327: 1, H0373: 1, T0010: 1, S6028: 1, H0615: 1, S0366: 1, S0036: 1, H0038: 1, H0616: 1, H0413: 1, T0041: 1, H0494: 1, S0438: 1, S0440: 1, H0509: 1, S0142: 1, S0210: 1, L0598: 1, L0762: 1, L0640: 1, L0631: 1, L0772: 1, L0766: 1, L0551: 1, L0774: 1, L0664: 1, H0547: 1, S0126: 1, H0659: 1, S0378: 1, S0152: 1,					
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									H0696: 1, S3014: 1, L0439: 1, L0740: 1, L0754: 1, L0756: 1, L0780: 1, L0755: 1, L0758: 1, S0434: 1 and H0667: 1.		
HODKC67	HODKC67R	1512	242 - 373	3687					H0615: 2		
HODKD20	HODKD20R	1513	43 - 213	3688				Arg-11 to Ser-17, Leu-51 to Pro-57.			
HODKD64	HODKD64R	1514	413 - 237	3689				Pro-5 to Asn-10.	H0615: 2 and H0696: 1.		
HODKE85	HODKE85R	1515	314 - 412	3690				Ser-18 to Ile-23.	H0615: 2 and H0328: 1.		
HODKF91	HODKF91R	1516	244 - 417	3691				Lys-12 to Ser-18.			
HODKG09	HODKG09R	1517	28 - 240	3692							
HODKJ77	HODKJ77R	1518	452 - 595	3693					H0615: 2		
HODKK26	HODKK26R	1519	2 - 415	3694				Asp-40 to Gly-45, Leu-59 to Glu-67, Lys-95 to Ile-105, Asp-113 to Gly-118.			
HODKK40	HODKK40R	1520	1 - 642	3695				Ser-15 to Phe-23, Lys-41 to Tyr-46, Pro-48 to Val-59, Thr-90 to Ile-103, Ser-110 to Arg-116, Pro-123 to Lys-137, Lys-157 to Glu-167, Arg-178 to Arg-194.			
HODKK73	HODKK73R	1521	3 - 344	3696				Phe-106 to Pro-114.			

HODKK77	HODKK77R	1522	272 - 433	3697	Ser-8 to Asn-15.	H0615: 2			
HODKL56	HODKL56R	1523	439 - 579	3698					
HODKM25	HODKM25R	1524	36 - 149	3699					
HODKM31	HODKM31R	1525	1 - 210	3700					
HODKN65	HODKN65R	1526	2 - 409	3701					
HOECR39	HOECR39R	1527	20 - 328	3702		H0659: 4, L0770: 3, L0747: 3, H0663: 2, S0360: 2, L0521: 2, L0776: 2, S0126: 2, H0658: 2, S0406: 2, L0755: 2, L0758: 2, L0759: 2, S0242: 2, T0002: 1, H0686: 1, H0341: 1, L0616: 1, S0354: 1, S0408: 1, H0052: 1, H0009: 1, H0083: 1, H0266: 1, H0615: 1, L0483: 1, H0040: 1, H0561: 1, S0422: 1, L0520: 1, L0625: 1, L0662: 1, L0766: 1, L0649: 1, L0519: 1, H0648: 1, S3014: 1, L0748: 1 and L0779: 1.			
HOFAB77	HOFAB77R	1528	1 - 399	3703	Glu-10 to Ala-26, Lys-31 to Tyr-43, Lys-45 to Glu-50, Ile-96 to Lys-102, Asp-123 to Gly-128.				

HOFMF37	HOFMF37R	1529	95 - 277	3704				
HOFMF79	HOFMF79RA	1530	85 - 219	3705				
HOFMJ88	HOFMJ88R	1531	2 - 397	3706	Arg-1 to Phe-16.			
HOFMJ93	HOFMJ93R	1532	1 - 162	3707	His-3 to Ala-19.			
HOFMM84	HOFMM84R	1533	1 - 204	3708				
HOFMN93	HOFMN93R	1534	69 - 323	3709	Glu-8 to Thr-14.	H0415: 2		
HOFMP59	HOFMP59R	1535	1 - 423	3710	Ala-5 to Arg-14.			
HOFMT68	HOFMT68R	1536	50 - 289	3711	Asn-41 to Lys-56.			
HOFMT69	HOFMT69R	1537	1 - 264	3712				
HOFMU92	HOFMU92R	1538	1 - 369	3713				
HOFMV06	HOFMV06R	1539	3 - 296	3714	Asp-1 to Leu-10.			
HOFNF63	HOFNF63R	1540	2 - 481	3715	Arg-1 to Arg-8, Ala-22 to Met-31, Asp-51 to Gln-56.	H0415: 2		
HOFNF76	HOFNF76R	1541	2 - 421	3716	Arg-1 to Ala-6, Ser-68 to Arg-73, Arg-87 to Ala-93.			
HOFNG51	HOFNG51R	1542	25 - 387	3717	Arg-1 to Cys-10, Glu-75 to Arg-94, Arg-99 to Gly-115.			
HOFNK44	HOFNK44R	1543	1 - 186	3718	Lys-52 to Asp-57.			
HOFNY53	HOFNY53R	1544	2 - 232	3719	Arg-1 to Phe-7, Gly-24 to Arg-36.			
HOFOB65	HOFOB65R	1545	1 - 453	3720				
HOFOB79	HOFOB79RP 00A	1546	2 - 682	3721	Val-31 to Val-38, Phe-46 to Ile-59, Arg-120 to Gln-126.			
HOFOE22	HOFOE22R	1547	1 - 345	3722				
HOFOF47	HOFOF47R	1548	3 - 326	3723	Asn-49 to Leu-54.			

HOF56	HOF56R	1549	1 - 351	3724	Ala-4 to Arg-11.			
HOGAC46	HOGAC46R	1550	35 - 193	3725	Ala-1 to Tyr-6, Ile-17 to Ser-32.			
HOGAQ03	HOGAQ03R	1551	110 - 286	3726	Pro-34 to Lys-39.	H0436: 44, L0748: 14, L0439: 9, L0747: 9, L0769: 7, L0803: 7, L0740: 7, L0755: 7, L0758: 7, L0761: 6, L0662: 6, L0794: 6, L0766: 6, L0663: 6, L0779: 6, H0542: 6, L0717: 5, L0756: 5, H0052: 4, H0135: 4, L0774: 4, L0659: 4, L0665: 4, L0777: 4, L0780: 4, L0731: 4, L0759: 4, H0556: 3, S0420: 3, S0410: 3, S0422: 3, L0763: 3, L0649: 3, L0804: 3, L0805: 3, L0776: 3, L0438: 3, H0547: 3, H0672: 3, H0539: 3, L0754: 3, L0757: 3, L0591: 3, H0422: 3, S0040: 2, S0114: 2, S0116: 2, H0255: 2, H0619: 2, H0486: 2, T0039: 2, H0013: 2, H0635: 2, H0253: 2,		

H0318: 2, S0049: 2, H0046: 2, L0041: 2, H0688: 2, H0428: 2, H0628: 2, L0055: 2, H0040: 2, H0087: 2, H0488: 2, H0100: 2, T0042: 2, H0529: 2, L5566: 2, L0667: 2, L0771: 2, L0768: 2, L0375: 2, L0517: 2, L0809: 2, L0666: 2, H0520: 2, H0519: 2, H0593: 2, S0380: 2, H0694: 2, L0742: 2, L0751: 2, L0750: 2, S0434: 2, S0436: 2, L0361: 2, L0601: 2, L0603: 2, S0424: 2, H0506: 2, H0265: 1, H0650: 1, H0657: 1, H0656: 1, L0760: 1, H0341: 1, S0001: 1, H0663: 1, H0662: 1, S0418: 1, S0356: 1, S0408: 1, H0580: 1, S0007: 1, H0229: 1, S0045: 1, S0046: 1, S0132: 1, H0351: 1, H0411: 1, H0431: 1, H0592: 1, H0497: 1,							
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	H0069: 1, S0280: 1, H0118: 1, H0618: 1, S0010: 1, H0421: 1, H0251: 1, H0204: 1, H0572: 1, H0050: 1, H0012: 1, H0373: 1, H0051: 1, T0010: 1, H0354: 1, H0252: 1, H0328: 1, H0622: 1, H0181: 1, H0617: 1, H0673: 1, H0038: 1, H0634: 1, H0616: 1, H0155: 1, H0264: 1, S0038: 1, H0022: 1, H0625: 1, H0538: 1, S0210: 1, S0002: 1, L0762: 1, L0770: 1, L5565: 1, L0373: 1, L0800: 1, L0642: 1, L0374: 1, L0764: 1, L0364: 1, L0388: 1, L0655: 1, L0657: 1, L0526: 1, L0518: 1, L0382: 1, L0789: 1, L0792: 1, L0664: 1, H0723: 1, H0726: 1, S0126: 1, H0689: 1, H0690: 1, H0682: 1, H0435: 1, H0670: 1, H0648: 1, S0330: 1,	
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H0GBE60	H0GBE60R	1552	265 - 591	3727	Asp-15 to His-22.	S0378: 1, S0152: 1, S0406: 1, H0555: 1, H0678: 1, L0744: 1, L0752: 1, L0753: 1, H0445: 1, H0707: 1, L0593: 1, L0595: 1, S0011: 1, H0668: 1, S0026: 1, H0665: 1, S0196: 1, H0543: 1 and H0677: 1.		
						L0777: 7, L0747: 6, L0779: 6, L0748: 5, L0776: 4, L0749: 4, L0770: 3, L0766: 3, L0759: 3, S0442: 2, L0769: 2, L0761: 2, L0771: 2, L0774: 2, L0527: 2, L0783: 2, L0665: 2, L0757: 2, L0758: 2, S0412: 2, H0402: 1, S0444: 1, H0438: 1, H0587: 1, H0333: 1, L0471: 1, H0674: 1, H0646: 1, L0763: 1, L0643: 1, L0764: 1, L0662: 1, L0363: 1, L0767: 1, L0387: 1, L0803: 1, L0526: 1, L0647: 1, L0663: 1, H0690: 1.		

									H0435: 1, S0330: 1, S0406: 1, L0740: 1, L0751: 1, L0780: 1, S0436: 1 and L0596: 1.			
HOGCF48	HOGCF48R	1553	230 - 436	3728								
HOGCG83	HOGCG83R	1554	50 - 409	3729								
HOGCH23	HOGCH23R	1555	58 - 207	3730								
HOGCI28	HOGCI28R	1556	3 - 332	3731					H0435: 4, H0726: 3, L0748: 3, H0355: 2, H0059: 2, L0525: 2, H0713: 1, H0717: 1, H0586: 1, H0427: 1, H0575: 1, H0744: 1, H0327: 1, H0271: 1, H0622: 1, H0087: 1, S0438: 1, L0792: 1, H0593: 1, H0555: 1, L0698: 1 and H0506: 1.			
HOGCI10	HOGCI10R	1557	10 - 480	3732					H0052: 1, H0135: 1, H0429: 1, H0519: 1 and H0435: 1.			
HOGCI42	HOGCI42R	1558	3 - 254	3733			Val-6 to Ala-11.					
HOGCI55	HOGCI55R	1559	7 - 507	3734			Thr-56 to Glu-61, Lys-87 to Lys-95, Thr-110 to Arg-118.					
HOGCP07	HOGCP07R	1560	3 - 143	3735								
HOGCP86	HOGCP86RA	1561	1 - 486	3736			Arg-11 to Arg-16, Pro-46 to Thr-52, His-58 to Pro-65,					

						Ala-71 to Trp-77, Pro-134 to Gly-146.			
HOGCT44	HOGCT44R	1562	1 - 183	3737		His-14 to Phe-20, Ser-37 to Gly-60.			
HOGCV85	HOGCV85R	1563	3 - 443	3738		Gly-20 to Leu-28, Val-33 to Gly-41, Thr-43 to Gly-55, Val-58 to Arg-66.			
HOGCV93	HOGCV93R	1564	22 - 513	3739		Lys-7 to Thr-13, Asp-24 to Thr-30, Gly-39 to Glu-52, Leu-70 to Arg-76, Phe-87 to Tyr-92.			
HOGCY12	HOGCY12R	1565	2 - 235	3740		Lys-2 to Thr-8, Asp-19 to Thr-25, Gly-34 to Glu-47, Leu-65 to Arg-71.			
HOGCY58	HOGCY58R	1566	3 - 338	3741		Asn-5 to Gln-12, Gln-19 to Glu-25, Arg-78 to Glu-99, Thr-106 to Ala-111.			
HOGCY74	HOGCY74R	1567	3 - 260	3742		Arg-1 to Asn-8, Phe-18 to His-24, Asp-57 to Lys-62, Lys-76 to Asp-81.			
HOGDD29	HOGDD29R	1568	3 - 152	3743					
HOGDE77	HOGDE77R	1569	95 - 184	3744					
HOGDG03	HOGDG03R	1570	2 - 397	3745		Thr-9 to His-19, Leu-35 to Ala-46.			

HOGDG76	HOGDG76R	1571	3 - 497	3746	Pro-55 to Pro-60, Gly-69 to Arg-74.	L0665: 3, H0682: 2, H0435: 2, L0751: 2, H0663: 1, L0021: 1, H0647: 1, L0806: 1, L0664: 1, H0683: 1, H0670: 1 and H0660: 1.		
HOGDI44	HOGDI44R	1572	1 - 342	3747	Gln-58 to Gln-64, Cys-73 to Arg-88.			
HOGDI49	HOGDI49R	1573	124 - 357	3748				
HOGDO25	HOGDO25R	1574	2 - 322	3749	Pro-38 to Met-44.			
HOGDO58	HOGDO58R	1575	74 - 244	3750	Pro-6 to Tyr-17, Val-39 to Gln-45.			
HOGDP10	HOGDP10R	1576	3 - 299	3751	Glu-3 to Glu-14.			
HOGDQ54	HOGDQ54R	1577	3 - 335	3752				
HOGDQ95	HOGDQ95R	1578	22 - 492	3753	Arg-9 to Val-17.			
HOGDR70	HOGDR70R	1579	48 - 470	3754	Arg-9 to Arg-18, Arg-27 to Arg-35, Arg-47 to Asp-55, Asp-78 to Lys-83.			
HOGDV93	HOGDV93R	1580	1 - 417	3755	Gly-1 to Ala-6, Glu-54 to Ile-62, Asp-89 to Thr-98.			
HOGEA27	HOGEA27R	1581	2 - 241	3756				
HOGED85	HOGED85R	1582	3 - 326	3757	Tyr-94 to Phe-99.			
HOG EK25	HOG EK25R	1583	2 - 325	3758				
HOGEN30	HOGEN30R	1584	2 - 325	3759	Leu-3 to Arg-19.			
HOGEN55	HOGEN55R	1585	2 - 226	3760				

HOGEP46	HOGEP46R	1586	3 - 212	3761	Gly-17 to Asn-27, Ser-51 to His-61.	L0521: 1, L0662: 1 and H0435: 1.		
HOGEP69	HOGEP69R	1587	2 - 223	3762				
HOGEP60	HOGEP60R	1588	2 - 376	3763		H0295: 8, H0617: 7, L0665: 7, H0435: 7, H0592: 6, H0494: 6, L0439: 6, L0751: 6, S0360: 5, S0046: 4, H0587: 4, H0012: 4, H0264: 4, L0662: 4, S0406: 4, H0586: 3, H0620: 3, H0031: 3, H0551: 3, S0440: 3, S0002: 3, L0763: 3, L0648: 3, L0649: 3, L0774: 3, L0659: 3, H0520: 3, H0547: 3, H0689: 3, H0660: 3, S0328: 3, S0330: 3, L0748: 3, L0754: 3, L0750: 3, H0294: 2, H0650: 2, H0341: 2, S0356: 2, S0132: 2, H0370: 2, H0333: 2, H0643: 2, L0623: 2, H0706: 2, H0081: 2, H0039: 2, H0553: 2, H0181: 2, H0068: 2, H0135: 2, H0040: 2, H0646: 2, L0640: 2,		

	L0637: 2, L0641: 2, L0764: 2, L0804: 2, L0806: 2, L0776: 2, L0657: 2, L0809: 2, L0664: 2, H0519: 2, H0682: 2, H0670: 2, H0672: 2, L0744: 2, L0740: 2, S0434: 2, H0677: 2, H0483: 1, H0305: 1, H0638: 1, S0442: 1, S0358: 1, S0376: 1, S0410: 1, H0411: 1, H0550: 1, H0455: 1, H0600: 1, H0101: 1, H0575: 1, H0590: 1, H0618: 1, H0052: 1, H0234: 1, H0597: 1, H0121: 1, L0041: 1, H0123: 1, H0246: 1, H0290: 1, H0292: 1, H0428: 1, H0622: 1, T0023: 1, H0030: 1, H0316: 1, H0059: 1, H0100: 1, S0306: 1, T0090: 1, H0649: 1, S0210: 1, S0426: 1, L0646: 1, L0765: 1, L0771: 1, L0626: 1, L0768: 1, L0364: 1, L0766: 1,	
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H0GEU84	H0GEU84R	1589	3 - 368	3764	Pro-8 to Asn-34, Ala-39 to Arg-53.	L0375: 1, L0651: 1, L0378: 1, L0653: 1, L0655: 1, L0558: 1, L0635: 1, L0518: 1, L0383: 1, L0792: 1, L0663: 1, S0006: 1, H0696: 1, S0044: 1, S3014: 1, L0743: 1, L0752: 1, L0755: 1, L0731: 1, L0759: 1, H0216: 1, H0543: 1, S0424: 1 and H0506: 1.		
H0GEW58	H0GEW58R	1590	1 - 417	3765		AR096: 1, AR104: 1, AR055: 0, AR061: 0, AR060: 0, AR089: 0 S0250: 1 and H0435: 1.		
H0GEW72	H0GEW72R	1591	256 - 333	3766				
H0GEZ03	H0GEZ03R	1592	52 - 144	3767				
H0GEZ27	H0GEZ27R	1593	2 - 307	3768				
H0HDI15	H0HDI15R	1594	3 - 170	3769				
H0OHB44	H0OHB44R	1595	128 - 313	3770	Ser-1 to Gln-6, Ser-51 to Thr-56.			
H0OHC27	H0OHC27R	1596	9 - 194	3771	Gly-4 to Lys-10.			
H0OHJ69	H0OHJ69R	1597	9 - 152	3772	Gly-4 to Lys-10.	H0637: 2, H0413: 1 and H0648: 1.		
H0OHK47	H0OHK47R	1598	126 - 260	3773				
H0OHL15	H0OHL15R	1599	60 - 383	3774				
H0OHL19	H0OHL19R	1600	14 - 205	3775	Pro-17 to Ser-24.			

HOOHL68	HOOHL68R	1601	271 - 570	3776		L0748: 11, L0666: 5, L0750: 5, L0805: 4, L0663: 4, L0664: 4, L0439: 4, L0662: 3, L0758: 3, L0005: 2, H0587: 2, H0318: 2, H0052: 2, H0024: 2, H0553: 2, L0770: 2, L0648: 2, L0766: 2, L0497: 2, L0665: 2, H0519: 2, H0648: 2, L0740: 2, L0731: 2, L0593: 2, H0677: 2, H0170: 1, H0583: 1, H0638: 1, H0586: 1, H0331: 1, H0486: 1, H0013: 1, H0156: 1, H0036: 1, L0040: 1, H0620: 1, S6028: 1, H0328: 1, H0615: 1, T0023: 1, S0036: 1, H0591: 1, H0040: 1, T0067: 1, S0472: 1, H0529: 1, L0761: 1, L0764: 1, L0771: 1, L0649: 1, L0803: 1, L0804: 1, L0775: 1, L0806: 1, L0655: 1, L0657: 1, L0659: 1, L0790: 1, H0144: 1,		
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								L0438: 1, H0672: 1, H0522: 1, S0392: 1, L0747: 1, L0749: 1, L0756: 1, L0752: 1, H0445: 1, L0591: 1 and H0422: 1.			
HOHP84	HOHP84R	1602	1 - 186	3777							
HOHQ09	HOHQ09R	1603	161 - 313	3778	Lys-1 to Lys-13.						
HOHQ83	HOHQ83R	1604	67 - 399	3779	Pro-10 to Ser-37, Gln-41 to Thr-57, Arg-62 to Thr-68, Pro-80 to Lys-85, Gly-99 to Gly-106.						
HOHR81	HOHR81R	1605	336 - 500	3780							
HOHS67	HOHS67R	1606	69 - 281	3781							
HOHS82	HOHS82R	1607	53 - 145	3782							
HOHT13	HOHT13R	1608	3 - 194	3783	Glu-1 to Glu-11.						
HOHX50	HOHX50R	1609	17 - 163	3784							
HOIA46	HOIA46R	1610	3 - 239	3785				L0770: 12, H0657: 10, H0659: 9, L0776: 8, H0648: 8, L0755: 8, L0774: 7, S0410: 6, H0494: 6, L0769: 6, L0750: 6, S0408: 5, S0440: 5, L0775: 5, S0376: 4, S0360: 4, L0748: 4, L0777: 4, L0752: 4, L0759: 4, H0341: 3, S0358: 3,			

				H0616: 3, L0766: 3, L0740: 3, L0747: 3, L0731: 3, L0758: 3, S0026: 3, H0170: 2, H0556: 2, H0685: 2, H0656: 2, S0420: 2, S0444: 2, T0109: 2, H0156: 2, H0545: 2, L0471: 2, H0031: 2, H0040: 2, H0560: 2, L0065: 2, S0438: 2, L0763: 2, L0772: 2, L0764: 2, L0518: 2, L0783: 2, H0144: 2, S0374: 2, H0520: 2, H0658: 2, H0670: 2, L0753: 2, H0445: 2, S0434: 2, H0665: 2, S0194: 2, S0134: 1, S0116: 1, H0663: 1, L0481: 1, H0638: 1, H0125: 1, S0442: 1, H0351: 1, H0369: 1, H0550: 1, H0431: 1, H0331: 1, H0069: 1, S0346: 1, T0048: 1, S0182: 1, S0049: 1, H0563: 1, H0081: 1, H0620: 1, H0014: 1, H0373: 1, H0083: 1.
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S0002: 3, L0805: 3, L0809: 3, L0438: 3, H0520: 3, L0748: 3, L0740: 3, L0758: 3, H0656: 2, S0418: 2, S0358: 2, H0013: 2, H0083: 2, S0022: 2, S0386: 2, L0776: 2, H0648: 2, L0602: 2, H0521: 2, S0028: 2, L0742: 2, L0596: 2, H0423: 2, H0170: 1, H0171: 1, H0657: 1, H0341: 1, H0669: 1, H0662: 1, H0638: 1, S0420: 1, S0376: 1, H0580: 1, S0007: 1, S0132: 1, L0717: 1, H0369: 1, H0600: 1, H0587: 1, H0497: 1, H0427: 1, L0021: 1, H0575: 1, S0010: 1, H0581: 1, H0421: 1, H0263: 1, T0115: 1, H0545: 1, L0471: 1, S0051: 1, H0510: 1, H0375: 1, S0003: 1, H0328: 1, H0428: 1, H0039: 1, H0622: 1, L0483: 1, H0031: 1,
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HOOF71	HOOF71R	1614	3 - 389	3789				
HOOG71	HOOG71R	1615	2 - 301	3790	Ile-1 to Lys-7, Gly-13 to Lys-19, Pro-59 to Arg-76.			
HOOK04	HOOK04R	1616	2 - 172	3791	Val-50 to Arg-56.			
HOOL33	HOOL33R	1617	97 - 264	3792	Leu-41 to Ser-52.			
HOIO53	HOIO53R	1618	3 - 164	3793				
HOIR94	HOIR94R	1619	20 - 109	3794				
HOJA64	HOJA64R	1620	272 - 400	3795				
HOJB36	HOJB36R	1621	118 - 315	3796				
HOJE93	HOJE93R	1622	125 - 268	3797				
HOJK91	HOJK91R	1623	80 - 211	3798				
HOJN84	HOJN84R	1624	1 - 189	3799	Asp-48 to Thr-54, Glu-57 to Ser-63.	L0758: 14, L0747: 10, L0752: 10, L0731: 10, L0663: 9, H0547: 9, L0740: 9, L0666: 8, H0046: 7, S0126: 7, L0748: 7, H0539: 6, L0439: 6, L0759: 6, L0595: 6, H0543: 6, H0050: 5, H0031: 5, H0648: 5, S0328: 5, H0624: 4, H0657: 4, H0656: 4, S0007: 4, H0549: 4, H0550: 4, H0591: 4, H0616: 4, H0551: 4, L0769: 4, L0662: 4, L0659: 4, H0144: 4, L0438: 4,		



H0580: 1, S0045: 1, H0440: 1, H0431: 1, T0104: 1, H0600: 1, H0632: 1, H0559: 1, H0485: 1, H0069: 1, S0280: 1, L0021: 1, H0042: 1, H0706: 1, H0505: 1, H0581: 1, H0421: 1, H0052: 1, L0471: 1, S0051: 1, H0266: 1, H0267: 1, S0316: 1, H0028: 1, H0252: 1, H0615: 1, H0644: 1, H0169: 1, H0598: 1, H0163: 1, H0038: 1, H0372: 1, H0412: 1, H0413: 1, H0623: 1, T0004: 1, S0372: 1, S0448: 1, S0440: 1, S0150: 1, S0344: 1, S0422: 1, L0598: 1, L0369: 1, L0520: 1, L0762: 1, L0761: 1, L0648: 1, L0521: 1, L0363: 1, L0649: 1, L0650: 1, L0523: 1, L0806: 1, L0653: 1, L0606: 1, L0661: 1, L0527: 1, L0809: 1, H0658: 1,					
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HO0JP58	HO0JP58R	1625	93 - 248	3800			H0672: 1, S0330: 1, S0152: 1, H0696: 1, S0406: 1, H0555: 1, H0478: 1, S0432: 1, L0786: 1, S0260: 1, H0445: 1, L0366: 1, S0026: 1, H0667: 1, H0423: 1, S0424: 1, S0446: 1 and H0008: 1.		
HO0JR60	HO0JR60R	1626	160 - 306	3801			H0648: 2, H0436: 2, L0748: 2, S0360: 1, L0766: 1, L0803: 1 and L0779: 1.		
HO0JR72	HO0JR72R	1627	77 - 265	3802					
HO0JS84	HO0JS84R	1628	78 - 290	3803					
HO0JT32	HO0JT32R	1629	1 - 237	3804					
HO0JT65	HO0JT65R	1630	2 - 340	3805	Ala-2 to Asp-10.				
HO0JV78	HO0JV78R	1631	318 - 560	3806			H0486: 1 and H0648: 1.		
HO0JX42	HO0JX42R	1632	317 - 463	3807					
HO0JX80	HO0JX80R	1633	106 - 267	3808	Arg-11 to Pro-22, Asn-42 to Lys-48.		L0731: 2, H0483: 1, T0007: 1, T0039: 1, H0562: 1, L0769: 1, L0766: 1, H0670: 1, H0648: 1, L0756: 1, L0755: 1, L0758: 1, L0759: 1 and L0485: 1.		
HO0JY17	HO0JY17R	1634	147 - 479	3809	Pro-8 to Phe-18:				

HOOJY41	HOOJY41R	1635	51 - 347	3810					
HOOJY44	HOOJY44R	1636	2 - 184	3811	Gln-1 to Cys-7, Asn-14 to Lys-22, Arg-29 to Leu-34, Glu-46 to Leu-54;				
HOOJY80	HOOJY80R	1637	1 - 462	3812	Ala-1 to Pro-6, Ala-22 to Glu-27, Glu-36 to Ser-45, Glu-62 to Gly-67, Gln-74 to Phe-83, Thr-90 to Ser-96, His-105 to Pro-116.				
HOOJY92	HOOJY92R	1638	3 - 437	3813		H0547: 16, H0090: 11, H0543: 10, H0542: 9, H0341: 8, L0471: 8, H0551: 8, S0358: 7, H0561: 7, S0126: 7, H0521: 7, H0657: 5, H0013: 5, S0440: 5, H0529: 5, H0144: 5, H0519: 5, H0265: 4, S0040: 4, H0264: 4, H0560: 4, H0520: 4, S0027: 4, L0731: 4, L0591: 4, L0592: 4, L0595: 4, H0423: 4, S0424: 4, H0170: 3, H0686: 3, H0638: 3, S0360: 3, S0410: 3, H0580: 3, H0486: 3,			

H0318: 3, H0510: 3, H0266: 3, H0553: 3, H0591: 3, H0040: 3, H0634: 3, S0150: 3, L0803: 3, L0657: 3, H0435: 3, S0152: 3, L0740: 3, L0747: 3, S0436: 3, L0588: 3, H0556: 2, S0116: 2, H0663: 2, S0356: 2, S0354: 2, S0376: 2, S0046: 2, H0393: 2, H0642: 2, H0574: 2, T0109: 2, H0635: 2, S0010: 2, T0110: 2, H0012: 2, H0083: 2, S0214: 2, H0038: 2, T0041: 2, T0042: 2, H0494: 2, H0647: 2, S0422: 2, S0002: 2, L0554: 2, H0660: 2, H0518: 2, S0406: 2, L0593: 2, H0667: 2, H0624: 1, H0171: 1, H0159: 1, S0114: 1, H0656: 1, H0484: 1, H0661: 1, H0664: 1, H0450: 1, S0442: 1, S0045: 1, H0619: 1, H0550: 1, S0222: 1,					
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	H0600: 1, H0586: 1, T0039: 1, T0040: 1, H0244: 1, H0069: 1, H0575: 1, H0004: 1, S0665: 1, H0581: 1, H0421: 1, S0049: 1, H0052: 1, T0115: 1, H0327: 1, H0572: 1, H0050: 1, H0620: 1, H0355: 1, S6028: 1, S0316: 1, H0290: 1, H0286: 1, H0615: 1, H0039: 1, H0622: 1, H0031: 1, H0316: 1, S0036: 1, H0616: 1, H0412: 1, H0056: 1, S0038: 1, S0112: 1, H0128: 1, H0429: 1, H0334: 1, H0625: 1, H0386: 1, H0509: 1, H0641: 1, H0633: 1, S0210: 1, S0426: 1, L0761: 1, L0800: 1, L0764: 1, L0773: 1, L0775: 1, L0663: 1, S0006: 1, S0148: 1, L0438: 1, H0593: 1, H0689: 1, H0670: 1, H0666: 1, H0648: 1, S0328: 1, S0330: 1,	
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							S0378: 1, H0696: 1, H0134: 1, H0555: 1, S0037: 1, S0206: 1, L0749: 1, S0031: 1, S0260: 1, H0445: 1, S0434: 1, L0599: 1, L0594: 1, H0422: 1 and S0456: 1.			
HOOKK83	HOOKK83R	1639	107 - 367	3814						
HOOKN43	HOOKN43R	1640	118 - 453	3815	Asp-1 to Lys-22.					
HOOKN71	HOOKN71R	1641	210 - 344	3816			H0657: 3, L0717: 2, H0421: 2, L0766: 2, L0666: 2, L0756: 2, L0759: 2, H0717: 1, H0587: 1, H0156: 1, L0021: 1, H0581: 1, H0014: 1, H0252: 1, S0422: 1, L0662: 1, L0794: 1, L0655: 1, L0809: 1, L0543: 1, L0791: 1, L0665: 1, H0658: 1, H0670: 1, H0648: 1, H0672: 1, H0696: 1, L0780: 1, S0434: 1 and H0506: 1.			
HOPJA09	HOPJA09R	1642	14 - 196	3817	Pro-20 to Gly-38.					
HOPJF95	HOPJF95R	1643	107 - 571	3818						
HOPJG60	HOPJG60R	1644	207 - 461	3819	Gly-69 to Gln-78.		L0775: 5, L0776: 5, L0747: 5, L0604: 5, L0769: 4, L0805: 4,			

HOPJG66	HOPJG66R	1645	2 - 136	3820	Pro-4 to Ser-29, Pro-31 to Ser-38.	L0777: 3, L0759: 3, L0774: 2, L0809: 2, L0758: 2, H0341: 1, H0484: 1, S0358: 1, S0444: 1, S0360: 1, S0226: 1, S0278: 1, H0156: 1, H0038: 1, H0616: 1, H0102: 1, L0770: 1, L0766: 1, L0804: 1, L0657: 1, L0789: 1, H0684: 1, H0696: 1, S0044: 1, L0756: 1 and L0780: 1.		
						H0547: 41, L0751: 26, H0520: 18, S0344: 12, L0731: 11, T0006: 9, L0794: 9, L0753: 8, L0593: 8, S0278: 6, L0809: 6, H0135: 5, S0142: 5, L0800: 5, L0665: 5, L0743: 5, L0747: 5, H0024: 4, S0328: 4, L0759: 4, H0661: 3, H0594: 3, H0617: 3, L0657: 3, H0658: 3, H0666: 3, L0750: 3, L0752: 3, H0352: 3, H0664: 2, H0662: 2, H0041: 2, H0123: 2, H0081: 2.		

	H0050: 2, H0099: 2, H0494: 2, S0002: 2, L0769: 2, L0806: 2, L0517: 2, L0382: 2, H0684: 2, H0660: 2, H0539: 2, S0152: 2, L0748: 2, L0587: 2, L0595: 2, H0294: 1, H0656: 1, H0484: 1, H0669: 1, H0208: 1, H0619: 1, H0586: 1, H0333: 1, H0427: 1, H0052: 1, H0251: 1, H0546: 1, H0545: 1, H0012: 1, H0688: 1, H0181: 1, H0606: 1, H0334: 1, H0646: 1, S0144: 1, S0426: 1, L0762: 1, L0640: 1, L0763: 1, L0637: 1, L0662: 1, L0386: 1, L0803: 1, L0804: 1, L0774: 1, L0378: 1, L0805: 1, L0629: 1, L0558: 1, L0659: 1, L0783: 1, L0791: 1, H0689: 1, H0648: 1, S0330: 1, S0332: 1, H0436: 1, H0540: 1, S0028: 1, L0744: 1,	
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							L0755: 1, L0757: 1, L0758: 1 and S0276: 1.			
HOPJG79	HOPJG79R	1646	3 - 542	3821		Ala-83 to Arg-91, Trp-99 to Tyr-105, Tyr-123 to Glu-128.				
HOPJG89	HOPJG89R	1647	166 - 597	3822		Gly-2 to Ala-13.				
HOPJH17	HOPJH17R	1648	321 - 464	3823						
HOPJH38	HOPJH38R	1649	148 - 285	3824			S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0518: 6, L0754: 6, L0752: 6, S0280: 5, H0575: 5, S0358: 4, S0346: 4, L0753: 4, H0170: 3, H0662: 3, S0360: 3, H0427: 3, L0471: 3, H0373: 3, L0638: 3, L0637: 3, L0764: 3, L0774: 3, L0809: 3, L0666: 3, S0310: 3, H0672: 3, H0696: 3, L0731: 3, H0506: 3, H0713: 2, S0408: 2, H0411: 2, H0455: 2, H0574: 2, S0414: 2, H0486: 2,			



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HOPJU10	HOPJU10R	1652	78 - 269	3827	Lys-31 to Gly-36.	H0039: 1, H0622: 1, S0464: 1, L0803: 1, H0684: 1 and H0670: 1.		
					Phe-15 to Ser-22.	L0665: 7, L0747: 7, L0662: 6, L0766: 6, L0655: 5, L0659: 5, S0126: 5, L0717: 4, H0370: 4, L0763: 4, L0770: 4, L0646: 4, H0521: 4, L0748: 4, S0360: 3, H0009: 3, S0142: 3, S0344: 3, L0771: 3, L0774: 3, L0775: 3, L0663: 3, L0664: 3, L0740: 3, L0751: 3, L0750: 3, L0758: 3, L0601: 3, H0265: 2, H0657: 2, S0418: 2, S0420: 2, S0045: 2, T0039: 2, H0024: 2, T0010: 2, H0413: 2, S0144: 2, S0210: 2, L0667: 2, L0372: 2, L0642: 2, L0765: 2, L0653: 2, L0383: 2, L0666: 2, L0744: 2, L0439: 2, L0754: 2, L0756: 2, L0731: 2, L0599: 2, H0543: 2, L0615: 1,		

				H0556: 1, H0295: 1, S0114: 1, H0656: 1, L0778: 1, S0282: 1, H0255: 1, H0661: 1, H0402: 1, S0354: 1, S0358: 1, S0376: 1, H0351: 1, S0222: 1, H0600: 1, H0586: 1, H0333: 1, H0250: 1, T0082: 1, H0318: 1, H0421: 1, H0052: 1, L0738: 1, H0327: 1, H0051: 1, H0083: 1, S0003: 1, S0022: 1, S0214: 1, H0092: 1, T0023: 1, L0483: 1, T0006: 1, H0030: 1, H0628: 1, H0181: 1, H0169: 1, H0090: 1, H0058: 1, L0351: 1, T0041: 1, H0494: 1, S0015: 1, L0065: 1, S0426: 1, L0640: 1, L0769: 1, L0772: 1, L0641: 1, L0374: 1, L0764: 1, L0773: 1, L0648: 1, L0626: 1, L0768: 1, L0649: 1, L0784: 1, L0378: 1, L0806: 1, L0776: 1,			
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HOIX48	HOPJX48R	1653	1 - 207	3828	Arg-5 to His-22, Ser-59 to Ala-69.	L0807: 1, L0657: 1, L0656: 1, L0783: 1, S0052: 1, S0428: 1, L0438: 1, H0547: 1, H0690: 1, H0682: 1, H0684: 1, H0670: 1, H0660: 1, H0672: 1, H0522: 1, H0187: 1, H0576: 1, S0027: 1, S0206: 1, L0743: 1, L0757: 1, L0605: 1, L0590: 1, L0591: 1, L0581: 1, L0595: 1, S0026: 1, H0665: 1, H0667: 1, H0542: 1, H0423: 1 and H0352: 1.		
						H0445: 13, H0255: 11, L0666: 7, H0575: 5, H0059: 4, S0344: 4, L0655: 4, H0521: 4, H0522: 4, L0748: 4, L0751: 4, H0556: 3, S0278: 3, H0013: 3, H0181: 3, H0617: 3, S0142: 3, H0658: 3, H0660: 3, L0439: 3, H0423: 3, S0116: 2, H0341: 2, S0360: 2, H0580: 2, H0581: 2, H0014: 2, H0087: 2,		

				L0663: 2, L0664: 2, L0665: 2, H0684: 2, L0741: 2, L0743: 2, H0170: 1, H0171: 1, H0265: 1, H0583: 1, H0657: 1, H0656: 1, L0470: 1, H0254: 1, H0664: 1, H0662: 1, S0420: 1, S0408: 1, H0393: 1, H0392: 1, H0613: 1, H0333: 1, L0622: 1, H0101: 1, H0250: 1, H0427: 1, L0021: 1, H0253: 1, S0346: 1, H0421: 1, H0596: 1, H0150: 1, H0620: 1, H0024: 1, H0428: 1, H0553: 1, H0169: 1, H0674: 1, S0366: 1, H0163: 1, H0040: 1, H0616: 1, H0063: 1, H0026: 1, H0517: 1, L0640: 1, L0770: 1, L0769: 1, L0761: 1, L0773: 1, L0559: 1, L0659: 1, L0790: 1, H0144: 1, H0593: 1, H0690: 1, H0709: 1, H0696: 1, H0187: 1, L0744: 1,		
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HOPJY50	HOPJY50R	1654	273 - 395	3829			S0031: 1 and H0543: 1.		
HOPJZ59	HOPJZ59R	1655	2 - 163	3830	Pro-35 to Arg-48.				
HOPKA06	HOPKA06R	1656	2 - 676	3831	Arg-19 to Tyr-24, Asp-75 to Glu-87, Asn-102 to Cys-109, Ser-113 to Lys-118, Tyr-154 to Ser-169.	AR096: 4, AR089: 3, AR061: 1, AR055: 1, AR060: 1, AR104: 1 H0684: 2 and L0731: 1.			
HOPKC65	HOPKC65R	1657	26 - 232	3832	Leu-39 to Ser-51.				
HOPKD31	HOPKD31R	1658	3 - 191	3833	Ser-50 to Pro-57.				
HOPKG16	HOPKG16R	1659	1 - 456	3834	Asn-80 to Gly-86.				
HOPKG47	HOPKG47R	1660	1 - 579	3835	Pro-6 to Thr-34, Asp-57 to Gly-62, Gly-77 to Glu-83, Lys-108 to Asp-116, Met-145 to Arg-159.				
HOPKG83	HOPKG83R	1661	1 - 663	3836	Ser-72 to Ala-78, Asp-94 to Gly-100, Thr-104 to Asp-111, Ser-117 to Arg-133, Glu-138 to Lys-144, Lys-158 to Asp-165.				
HOPKK38	HOPKK38R	1662	3 - 455	3837	Ser-33 to Pro-42, Lys-53 to Cys-61.	H0494: 6, H0556: 5, H0265: 3, H0656: 3, H0618: 3, H0295: 2, H0255: 2, H0392: 2, H0575: 2, H0253: 2, H0052: 2, H0024: 2, H0617: 2, H0087: 2,			

	L0565: 2, H0547: 2, H0521: 2, L0744: 2, L0439: 2, H0136: 2, H0543: 2, H0224: 1, H0225: 1, H0585: 1, S0114: 1, H0341: 1, H0484: 1, H0483: 1, H0671: 1, S0418: 1, S0354: 1, S0408: 1, S0007: 1, S0045: 1, H0261: 1, H0550: 1, H0586: 1, H0587: 1, H0497: 1, H0643: 1, H0257: 1, H0559: 1, H0485: 1, H0486: 1, S0346: 1, T0048: 1, T0071: 1, H0309: 1, H0041: 1, H0081: 1, H0050: 1, H0012: 1, H0620: 1, H0051: 1, S0388: 1, H0071: 1, H0083: 1, H0354: 1, H0594: 1, H0266: 1, H0179: 1, H0271: 1, H0292: 1, H0428: 1, H0424: 1, H0181: 1, H0135: 1, H0090: 1, H0063: 1, H0488: 1, H0433: 1, H0100: 1, T0041: 1, S0440: 1,				
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HOPKN14	HOPKN14R	1663	2 - 460	3838	Gly-63 to Ala-69, Gly-104 to Leu-110, Gly-130 to Gly-136.						
HOPKN67	HOPKN67R	1664	22 - 483	3839							
HOPKO04	HOPKO04RA	1665	170 - 319	3840				L0803: 6, L0731: 4, S0440: 3, L0662: 3, L0809: 3, L0665: 3, S0276: 3, H0486: 2, H0318: 2, L0794: 2, L0805: 2, L0776: 2, L0663: 2, H0684: 2, L0740: 2, L0759: 2, L0592: 2, H0624: 1, L0448: 1, H0341: 1, S0282: 1, H0663: 1, S0360: 1, H0580: 1, L0468: 1, H0587: 1, H0427: 1, H0575: 1, S0010: 1, L0471: 1, H0644: 1, H0383: 1, H0169: 1, L0456: 1, H0090: 1, H0264: 1,			

									H0412: 1, H0561: 1, S0150: 1, S0002: 1, H0529: 1, L0638: 1, L5565: 1, L0372: 1, L0649: 1, L0388: 1, L0659: 1, L0783: 1, L0789: 1, L0791: 1, H0519: 1, S0380: 1, H0522: 1, H0436: 1, L0747: 1, L0752: 1, L0757: 1, L0599: 1, H0542: 1, H0543: 1 and H0422: 1.			
HOPKO61	HOPKO61R	1666	1 - 405	3841								
HOPKP45	HOPKP45R	1667	282 - 536	3842								
HOPKQ20	HOPKQ20R	1668	19 - 402	3843	Ser-19 to Arg-29, Asp-37 to Val-43, Ala-75 to Leu-80, Thr-96 to Arg-111.							
HOPKQ82	HOPKQ82R	1669	1 - 519	3844								
HOPKR56	HOPKR56R	1670	3 - 173	3845					L0439: 15, L0666: 8, S0222: 6, L0794: 5, L0638: 3, L0805: 3, L0664: 3, L0758: 3, L0592: 3, S0010: 2, L0770: 2, L0438: 2, H0624: 1, H0170: 1, S6024: 1, H0441: 1, S0414: 1, H0052: 1, H0572: 1, S6028: 1,			

HOPKU33	HOPKU33R	1671	2 - 274	3846				H0688: 1, H0616: 1, L0769: 1, L0768: 1, L0803: 1, L0774: 1, L0776: 1, L0659: 1, L0809: 1, L0789: 1, L0792: 1, H0519: 1, H0684: 1, L0745: 1, L0747: 1, L0756: 1, L0786: 1, L0753: 1, L0731: 1, L0759: 1 and L0366: 1.		
HOVBH23	HOVBH23R	1672	2 - 136	3847	Gly-1 to Val-7.					
HOVBK37	HOVBK37R	1673	237 - 551	3848	Pro-7 to Trp-14.			L0794: 16, L0809: 6, S0360: 4, H0617: 3, L0803: 3, S0114: 2, H0288: 2, H0688: 2, H0494: 2, L0375: 2, L0731: 2, L0588: 2, H0556: 1, S0134: 1, H0484: 1, S0420: 1, H0637: 1, H0441: 1, H0370: 1, H0438: 1, H0592: 1, T0109: 1, S0010: 1, H0150: 1, H0009: 1, H0081: 1, H0271: 1, H0428: 1, S0368: 1, H0424: 1, H0181: 1, H0124: 1, S0438: 1, S0440: 1.		

							S0144: 1, S0142: 1, S0344: 1, L0637: 1, L5566: 1, L0761: 1, L0764: 1, L0648: 1, L0662: 1, L0364: 1, L0766: 1, L5574: 1, L0805: 1, L0783: 1, L0647: 1, L0789: 1, L0665: 1, H0520: 1, H0547: 1, H0670: 1, H0660: 1, H0648: 1, S0380: 1, H0521: 1, H0555: 1, S3012: 1, L0748: 1, L0779: 1, L0780: 1, L0757: 1, L0759: 1 and H0352: 1.			
HOVBK49	HOVBK49R	1674	3 - 86	3849		His-7 to Lys-20.				
HOVBS15	HOVBS15R	1675	144 - 404	3850		Glu-13 to Trp-32, Pro-34 to Asn-45.				
HOVBX41	HOVBX41R	1676	41 - 349	3851						
HOVCL23	HOVCL23R	1677	342 - 524	3852			S0360: 2, H0497: 2, H0333: 1, H0004: 1, H0428: 1, H0674: 1, S0422: 1, L0763: 1, L0803: 1, H0648: 1 and S0276: 1.			
HOVCN03	HOVCN03R	1678	2 - 127	3853		Gly-1 to Glu-7, Gly-29 to Ala-36.				
HOVCO26	HOVCO26R	1679	395 - 580	3854						
HOVCU89	HOVCU89R	1680	3 - 578	3855		Lys-63 to Ser-69,				

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				Gln-14 to Gln-19, Arg-25 to Glu-37, Asn-44 to Arg-50, Glu-67 to Leu-75, Thr-105 to Gly-114.						L0794: 10, L0803: 7, L0747: 6, H0657: 5, H0597: 4, H0617: 4, L0764: 4, L0809: 4, L0758: 4, L0759: 4, L0800: 3, L0804: 3, L0775: 3, H0659: 3, H0543: 3, H0231: 2, L0471: 2, H0673: 2, H0674: 2, L0763: 2, L0770: 2, L0769: 2, L0768: 2, L0649: 2, L0375: 2, L0776: 2, H0658: 2, L0750: 2, L0779: 2, L0755: 2, L0731: 2, L0757: 2, L0596: 2, L0588: 2, S0026: 2, H0170: 1, H0483: 1, H0661: 1, H0402: 1, H0459: 1, S0360: 1, H0639: 1, L0717: 1, H0392: 1, H0607: 1, H0333: 1, H0486: 1, H0318: 1,
HOVDH75	HOVDH75R	1694	43 - 348	3869						
HOVDU91	HOVDU91R	1695	3 - 233	3870						

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							L0766: 1, L0775: 1, L0776: 1, H0555: 1, L0742: 1, L0748: 1, L0757: 1 and L0759: 1.			
HOVDW60	HOVDW60R	1697	64 - 264	3872	Tyr-22 to Ala-28.		H0428: 1 and S3014: 1.			
HOVDZ66	HOVDZ66R	1698	99 - 257	3873	Gly-40 to His-48.		H0428: 2			
HOVEA43	HOVEA43R	1699	247 - 396	3874						
HOVEB25	HOVEB25R	1700	169 - 363	3875	Ala-20 to Gln-25.					
HOVEE84	HOVEE84R	1701	410 - 589	3876	Ser-7 to Trp-13, Phe-19 to Ala-25.					
HOVEE92	HOVEE92R	1702	3 - 143	3877			S0474: 66, L0439: 16, H0547: 15, L0748: 15, L0731: 10, S0360: 9, L0770: 9, S0408: 8, S0358: 7, L0771: 7, L0775: 7, L0747: 6, L0592: 6, H0428: 5, S0438: 5, L0659: 5, L0664: 5, L0665: 5, L0752: 5, L0757: 5, H0506: 5, S0007: 4, H0549: 4, S0440: 4, L0769: 4, L0768: 4, L0774: 4, L0663: 4, H0519: 4, S0152: 4, L0750: 4, L0779: 4, L0755: 4, L0759: 4, L0591: 4, L0595: 4, S0444: 3, H0510: 3, H0615: 3, H0551: 3,			



	H0100: 3, L0598: 3, L0638: 3, L0766: 3, S0380: 3, L0594: 3, H0341: 2, S0420: 2, S0442: 2, H0722: 2, L0717: 2, H0550: 2, S0222: 2, H0587: 2, H0574: 2, H0632: 2, H0013: 2, H0575: 2, H0581: 2, H0544: 2, H0012: 2, H0687: 2, H0628: 2, S0036: 2, H0509: 2, L0637: 2, L0764: 2, L0773: 2, L0803: 2, L0375: 2, L0806: 2, L0783: 2, L0666: 2, H0520: 2, H0684: 2, H0659: 2, H0521: 2, L0745: 2, L0756: 2, S0436: 2, L0596: 2, L0593: 2, L0362: 2, S0194: 2, H0543: 2, H0624: 1, H0170: 1, H0171: 1, H0717: 1, H0657: 1, H0671: 1, H0663: 1, H0664: 1, H0459: 1, S0356: 1, S0410: 1, H0637: 1, S0476: 1, H0645: 1, S6026: 1,	
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	S0300: 1, H0369: 1, H0431: 1, H0586: 1, H0497: 1, H0331: 1, L0021: 1, S0049: 1, H0184: 1, L0738: 1, H0545: 1, H0046: 1, H0563: 1, H0123: 1, H0050: 1, L0471: 1, H0620: 1, H0014: 1, S0388: 1, S0051: 1, H0356: 1, H0266: 1, S0003: 1, H0039: 1, H0622: 1, T0006: 1, H0617: 1, S0366: 1, H0090: 1, H0040: 1, H0616: 1, S0038: 1, T0041: 1, H0494: 1, S0014: 1, S0150: 1, L0369: 1, L0640: 1, L0763: 1, L5565: 1, L0761: 1, L0373: 1, L0372: 1, L0646: 1, L0521: 1, L0662: 1, L0804: 1, L0651: 1, L0652: 1, L0776: 1, L0527: 1, L0657: 1, L0526: 1, L0384: 1, L0809: 1, L0545: 1, L0790: 1, L0792: 1, H0144: 1, L0438: 1,	
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							H0593: 1, S0126: 1, H0682: 1, H0660: 1, H0648: 1, S0328: 1, H0539: 1, S0378: 1, S0350: 1, H0696: 1, S0028: 1, S0206: 1, L0740: 1, L0777: 1, L0758: 1, S0434: 1, H0217: 1, S0192: 1, S0412: 1 and S0456: 1.			
HOVEF34	HOVEF34R	1703	288 - 497	3878						
HOVEF81	HOVEF81R	1704	1 - 393	3879	Gln-4 to Gln-10, Lys-35 to Ala-60, Pro-66 to Ser-79.		L0750: 11, L0740: 7, L0747: 5, H0341: 4, L0757: 4, H0641: 3, L0766: 3, L0748: 3, L0754: 3, L0752: 3, L0593: 3, H0171: 2, S0134: 2, S0442: 2, S0010: 2, H0428: 2, H0538: 2, L0770: 2, L0774: 2, L0776: 2, L0517: 2, L0438: 2, H0519: 2, H0684: 2, L0777: 2, L0755: 2, L0731: 2, L0758: 2, S0026: 2, H0170: 1, T0002: 1, S0114: 1, S0116: 1, H0663: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1,			

								H0411: 1, H0592: 1, H0486: 1, H0013: 1, L0022: 1, H0575: 1, H0581: 1, H0052: 1, H0251: 1, H0012: 1, H0620: 1, H0594: 1, H0398: 1, S0036: 1, H0090: 1, H0038: 1, H0040: 1, H0087: 1, L0475: 1, L0520: 1, L0630: 1, L0521: 1, L0662: 1, L0522: 1, L0803: 1, L0651: 1, L0652: 1, L0655: 1, L0661: 1, L0783: 1, L0809: 1, L0789: 1, L0666: 1, H0689: 1, H0682: 1, H0659: 1, H0670: 1, S0330: 1, H0539: 1, H0436: 1, L0605: 1, L0366: 1, S0276: 1, H0542: 1 and H0423: 1.			
HOVEG73	HOVEG73R	1705	3 - 290	3880	Ser-9 to Gly-17, Ser-20 to Pro-26, Arg-32 to His-41.						
HOVEJ15	HOVEJ15R	1706	160 - 468	3881				L0809: 8, L0794: 5, L0439: 5, L0758: 5, H0617: 4, L0438: 4, L0754: 4, L0731: 4,			

HOVEL51	HOVEL51R	1707	60 - 209	3882	Ser-13 to Val-21, Thr-45 to Ser-50.	H0295: 3, L0776: 3, H0619: 2, H0441: 2, H0253: 2, H0545: 2, H0188: 2, H0687: 2, H0428: 2, H0424: 2, H0213: 2, H0031: 2, L0769: 2, L0803: 2, L0792: 2, H0539: 2, L0748: 2, L0745: 2, L0747: 2, L0757: 2, H0717: 1, H0549: 1, S0222: 1, H0333: 1, H0318: 1, S0049: 1, L0738: 1, H0046: 1, H0024: 1, H0090: 1, H0649: 1, S0142: 1, L0763: 1, L0642: 1, L0764: 1, L0771: 1, L0649: 1, L0651: 1, L0632: 1, L0805: 1, L0790: 1, H0144: 1, H0723: 1, H0682: 1, H0696: 1, H0555: 1, S0028: 1, L0742: 1, L0744: 1 and L0752: 1.
HOVEN79	HOVEN79R	1708	146 - 265	3883		
HOVEN86	HOVEN86R	1709	1 - 168	3884		
HOVEP45	HOVEP45R	1710	1 - 102	3885		

HOVEW80	HOVEW80R	1711	2 - 244	3886					
HOVEY58	HOVEY58R	1712	175 - 405	3887	Lys-5 to Ser-18.			L0803: 7, L0748: 4, L0439: 4, L0804: 3, L0750: 3, L0756: 3, H0024: 2, L0438: 2, L0747: 2, L0779: 2, H0624: 1, H0171: 1, H0661: 1, S0354: 1, H0208: 1, S0300: 1, H0441: 1, H0331: 1, H0013: 1, S0214: 1, H0428: 1, H0040: 1, L0770: 1, L0776: 1, L0809: 1, L0665: 1, H0547: 1, H0658: 1, S0432: 1, L0749: 1, L0777: 1, L0780: 1, L0755: 1 and L0759: 1.	
HOVFD79	HOVFD79R	1713	3 - 152	3888	Val-2 to Ser-7.				
HOVJF86	HOVJF86RA	1714	20 - 130	3889					
HOVJH27	HOVJH27RA	1715	2 - 355	3890					
HOVJI53	HOVJI53R	1716	1 - 396	3891					
HOVJJ09	HOVJJ09R	1717	1 - 576	3892	Ser-5 to Gly-10, Glu-18 to Glu-32, Ala-39 to Lys-46, Ser-89 to Arg-96, Pro-141 to Ala-151, Ser-162 to Gln-169.				
HOVJR56	HOVJR56R	1718	1 - 186	3893	Ala-18 to Ser-24, Gly-55 to Thr-60.				

HOVJU75	HOVJU75R	1719	49 - 684	3894	Tyr-44 to Asp-49, Pro-132 to Leu-139, Cys-168 to His-174.			
HOVJW17	HOVJW17R	1720	74 - 301	3895	Ala-8 to Gln-14, Arg-40 to Glu-45.			
HOVJY68	HOVJY68R	1721	199 - 570	3896	Pro-47 to Lys-53, Leu-93 to Lys-102, Tyr-105 to Gln-110, Arg-115 to Lys-124.			
HOVKB02	HOVKB02R	1722	1 - 366	3897	Ala-1 to His-13, Leu-73 to Leu-79.	L0157: 2, H0620: 2, L0666: 2, S0001: 1, L0717: 1, H0549: 1, S0222: 1, H0581: 1, H0194: 1, H0015: 1, H0399: 1, H0271: 1, H0688: 1, H0428: 1, H0124: 1, L0637: 1, H0672: 1, L0439: 1, L0750: 1 and H0423: 1.		
HOVKE66	HOVKE66R	1723	2 - 487	3898	Ala-20 to Val-38, Cys-43 to Thr-60, Arg-91 to Lys-97.			
HOVKF20	HOVKF20R	1724	1 - 168	3899	Gln-15 to Leu-20, Pro-37 to Thr-44.			
HOVKG18	HOVKG18R	1725	2 - 406	3900	Cys-23 to His-29, Ser-74 to Glu-91.			
HPAMB11	HPAMB11R	1726	323 - 511	3901	Gln-8 to Tyr-14, Pro-20 to Thr-26.			
HPAMB60	HPAMB60R	1727	2 - 586	3902				

HPAMB62	HPAMB62R	1728	2 - 196	3903	Leu-12 to Ser-21.	L0439: 11, L0747: 8, H0624: 6, L0759: 6, L0779: 5, L0758: 5, H0013: 4, L0803: 4, L0754: 4, H0171: 3, L0666: 3, L0756: 3, L0752: 3, L0755: 3, L0591: 3, L0608: 3, H0170: 2, H0650: 2, H0341: 2, H0663: 2, S0360: 2, S0003: 2, L0769: 2, L0796: 2, L0766: 2, L0649: 2, L0806: 2, H0696: 2, S0028: 2, L0740: 2, L0750: 2, L0777: 2, S0436: 2, L0361: 2, S0298: 1, S0418: 1, S0444: 1, S0408: 1, H0733: 1, H0734: 1, S0300: 1, S0220: 1, H0497: 1, H0333: 1, H0270: 1, H0575: 1, H0036: 1, H0590: 1, H0596: 1, H0050: 1, L0471: 1, H0015: 1, S0388: 1, S6028: 1, H0266: 1, H0328: 1, H0622: 1, H0708: 1, H0591: 1, H0040: 1,		
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					Pro-13 to Thr-20.	L0794: 12, L0747: 12, H0696: 11, H0341: 10, H0670: 10, H0657: 9, S0422: 9, H0659: 8, S0114: 7, H0656: 7, S0408: 7, S0007: 7, H0486: 7, H0543: 7, S0444: 6, L0471: 6, S0126: 6, H0658: 6, S0378: 6, S0406: 6, S0027: 6, H0038: 5, H0040: 5, L0770: 5, L0517: 5, H0648: 5, S0404: 5, L0752: 5, H0423: 5, H0624: 4, H0171: 4, H0716: 4, S0116: 4, S0410: 4, H0545: 4, H0373: 4, H0674: 4, L0520: 4, L0763: 4, L0662: 4, L0775: 4, L0493: 4, L0518: 4, L0809: 4, L0519: 4, S3012: 4, H0445: 4, L0361: 4, H0685: 3, T0049: 3, S0420: 3, H0580: 3, S0132: 3, T0109: 3, H0013: 3, S0346: 3, H0597: 3, H0615: 3, H0616: 3, H0087: 3.
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	H0494: 3, S0440: 3, L0769: 3, L0761: 3, L0764: 3, L0521: 3, L0803: 3, L0776: 3, L0537: 3, H0144: 3, H0682: 3, S0380: 3, S0028: 3, L0748: 3, L0731: 3, H0422: 3, H0394: 2, T0002: 2, H0159: 2, S0342: 2, H0717: 2, S0134: 2, H0484: 2, H0661: 2, H0638: 2, S0442: 2, H0637: 2, H0619: 2, H0351: 2, H0362: 2, S0280: 2, T0048: 2, H0009: 2, H0012: 2, H0014: 2, H0688: 2, H0617: 2, H0413: 2, L0065: 2, S0438: 2, S0210: 2, L0767: 2, L0522: 2, L0806: 2, L0653: 2, L0526: 2, L0546: 2, L0530: 2, L0532: 2, L0666: 2, L0665: 2, H0547: 2, H0689: 2, H0672: 2, H0651: 2, S0328: 2, S0330: 2, H0710: 2, S0152: 2, H0521: 2,	
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	S0390: 2, S0032: 2, L0742: 2, L0750: 2, L0588: 2, L0603: 2, S0026: 2, H0170: 1, H0395: 1, H0713: 1, S0402: 1, S6024: 1, H0295: 1, H0294: 1, S0218: 1, S0110: 1, H0402: 1, H0305: 1, S0418: 1, H0722: 1, H0728: 1, S0046: 1, S0476: 1, S0300: 1, H0462: 1, S0222: 1, H0385: 1, H0370: 1, H0404: 1, H0592: 1, H0497: 1, H0333: 1, L0623: 1, L0586: 1, T0060: 1, H0098: 1, H0318: 1, L0563: 1, H0581: 1, H0421: 1, H0251: 1, H0309: 1, H0596: 1, H0231: 1, H0150: 1, H0123: 1, H0620: 1, L0163: 1, S0051: 1, H0399: 1, H0354: 1, H0266: 1, S0334: 1, S0312: 1, S0214: 1, H0428: 1, L0483: 1, T0006: 1, H0553: 1, H0606: 1.	
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	H0212: 1, H0124: 1, H0090: 1, H0059: 1, T0004: 1, T0041: 1, H0560: 1, H0625: 1, H0561: 1, H0366: 1, H0509: 1, H0633: 1, S0472: 1, H0647: 1, H0646: 1, H0649: 1, S0142: 1, H0529: 1, L0451: 1, L0625: 1, L0640: 1, L0501: 1, L3904: 1, L0771: 1, L0560: 1, L5569: 1, L5574: 1, L5564: 1, L0499: 1, L0651: 1, L0555: 1, L0514: 1, L0783: 1, L0529: 1, L0791: 1, L0664: 1, S0374: 1, H0691: 1, H0684: 1, H0435: 1, H0660: 1, H0666: 1, H0539: 1, H0524: 1, H0704: 1, S0044: 1, S0146: 1, H0134: 1, H0436: 1, S0392: 1, S3014: 1, L0753: 1, L0755: 1, L0759: 1, S0031: 1, S0260: 1, H0444: 1, H0595: 1, L0599: 1, L0608: 1.
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							H0653: 1, S0242: 1, S0194: 1, S0196: 1, H0542: 1, H0506: 1 and H0352: 1.			
HPAMD56	HPAMD56R	1734	1 - 504	3909	Glu-10 to Phe-17, Phe-25 to Leu-32, Thr-38 to Tyr-44, Gln-81 to Thr-88.					
HPAME35	HPAME35R	1735	2 - 277	3910	Gly-60 to Phe-66.		L0731: 9, L0653: 8, L0757: 6, L0809: 5, L0747: 5, S0418: 4, S0360: 4, H0188: 4, S0404: 4, L0779: 4, S0040: 3, H0370: 3, H0040: 3, L0774: 3, S0434: 3, S0442: 2, H0575: 2, H0252: 2, S0440: 2, L0374: 2, L0773: 2, H0435: 2, S0406: 2, L0748: 2, L0740: 2, L0754: 2, L0746: 2, L0758: 2, L0581: 2, H0624: 1, H0686: 1, S0180: 1, H0661: 1, S0358: 1, S0476: 1, L0717: 1, H0549: 1, H0455: 1, H0586: 1, H0632: 1, S0280: 1, H0599: 1, H0118: 1, H0235: 1,			

									H0597: 1, H0545: 1, T0003: 1, H0510: 1, S0314: 1, H0039: 1, L0194: 1, T0086: 1, H0606: 1, H0032: 1, H0674: 1, H0708: 1, H0598: 1, H0634: 1, H0379: 1, H0413: 1, H0100: 1, S0464: 1, H0509: 1, S0344: 1, L0763: 1, L4497: 1, L0639: 1, L0764: 1, L0771: 1, L0364: 1, L0775: 1, L0806: 1, L0655: 1, L0807: 1, L0657: 1, L0788: 1, L0664: 1, L0665: 1, S0374: 1, H0693: 1, S0126: 1, H0689: 1, H0690: 1, H0682: 1, H0670: 1, H0660: 1, H0672: 1, S0330: 1, S0152: 1, S0390: 1, L0744: 1, L0750: 1, L0780: 1, L0753: 1, H0665: 1, H0667: 1 and S0196: 1.				
HPAME58	HPAME58R	1736	184 - 492	3911	Lys-1 to Leu-12.	H0663: 1, L0438: 1 and H0682: 1.							
HPAMF16	HPAMF16R	1737	19 - 513	3912	Glu-1 to Gly-8.								

HPAMF38	HPAMF38R	1738	24 - 449	3913	Ser-35 to Gly-41, Ser-71 to Met-80.	L0752: 12, L0748: 8, L0766: 5, L0599: 5, H0617: 4, L0764: 4, H0081: 3, L0774: 3, L0806: 3, L0776: 3, L0749: 3, L0750: 3, S0444: 2, S0408: 2, H0392: 2, H0150: 2, H0494: 2, H0521: 2, L0756: 2, L0758: 2, H0506: 2, H0352: 2, H0265: 1, H0483: 1, S0358: 1, L0021: 1, H0108: 1, H0024: 1, H0083: 1, S0366: 1, H0090: 1, H0038: 1, H0040: 1, T0041: 1, L0763: 1, L0770: 1, L3905: 1, L0772: 1, L0644: 1, L0645: 1, L0771: 1, L0775: 1, L0651: 1, L0378: 1, L0659: 1, L0666: 1, L0665: 1, L0438: 1, H0519: 1, H0682: 1, H0670: 1, S0188: 1, L0740: 1, L0747: 1, L0777: 1, L0759: 1, H0445: 1, L0596: 1, L0604: 1 and H0542: 1.		
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HPAMG44	HPAMG44R	1739	385 - 666	3914					
HPAMG54	HPAMG54R	1740	3 - 410	3915					
HPAMI11	HPAMI11R	1741	2 - 670	3916	Lys-13 to Tyr-30, Arg-52 to Lys-57, Ser-72 to Thr-79, Thr-110 to Trp-115, Leu-124 to Ala-130, Leu-132 to Glu-138, Asn-141 to Lys-162.				
HPAMI71	HPAMI71R	1742	2 - 472	3917					
HPAMQ47	HPAMQ47R	1743	100 - 246	3918		L0777: 5, L0766: 3, L0803: 3, L0439: 3, S0360: 2, L0598: 2, L0666: 2, L0748: 2, T0049: 1, S0134: 1, S0116: 1, L0717: 1, H0586: 1, H0486: 1, H0575: 1, H0510: 1, H0553: 1, H0560: 1, S0422: 1, L0763: 1, L0769: 1, L0521: 1, L0767: 1, L0768: 1, L0775: 1, L0663: 1, S0374: 1, L0438: 1, H0520: 1, H0682: 1, S0328: 1, L0740: 1, L0757: 1, S0192: 1 and H0543: 1.			
HPAMQ76	HPAMQ76R	1744	2 - 190	3919	Pro-18 to Lys-24.				
HPAMT47	HPAMT47R	1745	327 - 509	3920	Thr-27 to Lys-37.				
						S0358: 8, L0777: 6,			

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							H0682: 1, H0435: 1, H0670: 1, H0666: 1, H0672: 1, S0328: 1, H0696: 1, L0751: 1, L0749: 1, L0756: 1, L0780: 1, L0757: 1, L0759: 1, H0543: 1, H0423: 1 and H0422: 1.			
HPAMU33	HPAMU33R	1746	2 - 520	3921	Lys-59 to Tyr-70, Pro-109 to Lys-115.					
HPAMV82	HPAMV82R	1747	207 - 422	3922	Gln-34 to Asn-39.					
HPAMW44	HPAMW44R	1748	1 - 357	3923	Gly-1 to Arg-13, Glu-37 to Lys-42, Gly-45 to Gln-64.					
							L0742: 11, L0747: 10, L0769: 9, L0766: 9, L0754: 8, L0751: 7, L0777: 7, L0752: 7, L0806: 6, L0776: 6, L0743: 6, L0717: 4, L0665: 4, L0750: 4, S0360: 3, H0580: 3, H0318: 3, H0052: 3, L0471: 3, H0040: 3, T0042: 3, H0547: 3, H0682: 3, L0745: 3, L0779: 3, L0759: 3, L0593: 3, L0601: 3, H0624: 2, H0556: 2, S0045: 2, H0559: 2, H0013: 2, H0530: 2, H0046: 2, H0620: 2, S0051: 2, T0010: 2,			

	H0083: 2, S0002: 2, L0770: 2, L0659: 2, H0520: 2, S0292: 2, L0744: 2, L0740: 2, L0758: 2, L0596: 2, T0049: 1, L0393: 1, S0001: 1, H0663: 1, H0306: 1, H0638: 1, S0420: 1, S0358: 1, S0132: 1, H0619: 1, H0645: 1, H0550: 1, S0222: 1, H0392: 1, H0438: 1, H0257: 1, T0039: 1, T0040: 1, S0280: 1, H0156: 1, H0575: 1, H0618: 1, H0253: 1, S0010: 1, H0581: 1, H0194: 1, H0204: 1, H0150: 1, H0123: 1, H0292: 1, L0194: 1, T0023: 1, H0031: 1, H0553: 1, H0617: 1, H0673: 1, H0169: 1, H0674: 1, H0090: 1, H0269: 1, H0623: 1, H0494: 1, L0475: 1, S0150: 1, H0538: 1, L0763: 1, L0638: 1, L0761: 1, L0646: 1, L0645: 1.				
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HPAMY45	HPAMY45R	1749	291 - 569	3924	Pro-1 to Cys-6, Ala-13 to Ala-19, His-22 to Lys-28, Ser-44 to Cys-53, Pro-56 to Gly-67.	L0771: 1, L0803: 1, L0774: 1, L0775: 1, L0651: 1, L0657: 1, L0658: 1, L0545: 1, L0792: 1, L0663: 1, L0664: 1, H0144: 1, H0593: 1, S0126: 1, H0435: 1, S0330: 1, H0521: 1, H0522: 1, S0044: 1, S0406: 1, S0027: 1, L0741: 1, L0439: 1, L0755: 1, L0757: 1, S0436: 1, L0485: 1, L0603: 1, S0011: 1, H0668: 1, H0542: 1 and H0422: 1.		
HPAMZ14	HPAMZ14R	1750	2 - 628	3925	Trp-19 to Ser-27, Pro-185 to Ser-195.			
HPAMZ15	HPAMZ15R	1751	3 - 149	3926		L0493: 91, L0515: 29, L0509: 25, L0514: 21, L0803: 12, L0508: 8, L0604: 7, H0599: 6, L0809: 5, H0445: 5, L0800: 4, L0511: 4, L0362: 4, H0543: 4,		

	H0657: 3, L0598: 3, L0498: 3, L0805: 3, L0780: 3, L0755: 3, L0731: 3, L0759: 3, L0591: 3, S0026: 3, H0170: 2, H0373: 2, H0038: 2, H0623: 2, H0494: 2, H0560: 2, H0561: 2, L0503: 2, L0651: 2, L0653: 2, L0776: 2, L0792: 2, H0520: 2, H0555: 2, S0206: 2, L0748: 2, L0749: 2, L0756: 2, L0779: 2, L0590: 2, L0608: 2, H0668: 2, H0422: 2, S0040: 1, S0114: 1, S0134: 1, S0218: 1, H0656: 1, S0212: 1, S0360: 1, H0489: 1, H0580: 1, S0045: 1, S0476: 1, H0431: 1, H0643: 1, L0623: 1, H0486: 1, H0069: 1, H0002: 1, H0097: 1, H0274: 1, S0474: 1, H0421: 1, L0040: 1, H0024: 1, S0003: 1, H0622: 1, H0553: 1, H0032: 1.	
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HPAMZ81	HPAMZ81R	1752	3 - 677	3927	Ser-1 to Lys-25, Glu-71 to Ser-77, Glu-93 to Thr-99,	H0388: 1, H0400: 1, S0036: 1, H0090: 1, H0551: 1, H0264: 1, H0412: 1, S0386: 1, T0042: 1, H0625: 1, S0210: 1, H0529: 1, L0625: 1, L0505: 1, L0506: 1, L0500: 1, L0761: 1, L0646: 1, L0662: 1, L0794: 1, L0375: 1, L0784: 1, L0655: 1, L0510: 1, L0634: 1, L0517: 1, L0519: 1, L0793: 1, L0666: 1, L0664: 1, S0374: 1, H0547: 1, H0519: 1, H0682: 1, H0658: 1, H0648: 1, H0672: 1, H0539: 1, H0521: 1, H0696: 1, S0146: 1, S0390: 1, L0747: 1, L0753: 1, S0260: 1, H0444: 1, S0434: 1, L0584: 1, S0242: 1, S0194: 1, S0276: 1, H0542: 1 and S0424: 1.		
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						Arg-123 to His-134, Pro-141 to His-146, His-198 to Ala-207.				
HPANA05	HPANA05R	1753	2 - 514	3928		Thr-23 to Gln-35, His-37 to Val-51, Arg-70 to Arg-81, Gln-108 to Asp-114, Met-130 to Ser-140.				
HPANA07	HPANA07R	1754	1 - 720	3929		Ala-1 to Thr-6, Lys-19 to Leu-24, Ile-77 to Ala-93, Val-105 to Leu-110, Thr-139 to Thr-153, Thr-165 to Lys-187, Ala-198 to Leu-203, Ser-211 to Lys-226.	H0497: 5, S0002: 5, H0529: 5, H0556: 4, H0046: 3, L0455: 3, T0042: 3, H0520: 3, H0543: 3, H0265: 2, H0657: 2, H0656: 2, H0458: 2, S0358: 2, H0486: 2, H0050: 2, H0124: 2, H0591: 2, H0494: 2, L0662: 2, H0522: 2, L0740: 2, L0751: 2, L0747: 2, L0588: 2, L0605: 2, H0667: 2, H0686: 1, H0650: 1, H0664: 1, H0125: 1, S0418: 1, H0580: 1, S6014: 1, H0257: 1, H0559: 1, H0635: 1, H0427: 1, H0575: 1, H0052: 1, N0006: 1, L0471: 1, H0373: 1, H0083: 1,			



									H0266: 1, S0250: 1, S0022: 1, H0428: 1, H0031: 1, H0383: 1, H0212: 1, S0366: 1, S0036: 1, H0040: 1, H0634: 1, H0561: 1, S0210: 1, L0770: 1, L0761: 1, L0772: 1, L0641: 1, L0644: 1, L0764: 1, L0776: 1, L0655: 1, L0807: 1, L0657: 1, L0665: 1, S0148: 1, S0126: 1, H0682: 1, H0694: 1, S0037: 1, L0744: 1, L0750: 1, L0755: 1, L0731: 1, S0436: 1, L0596: 1, L0485: 1, L0601: 1, S0276: 1, H0423: 1, S0424: 1 and S0446: 1.					
HPANA28	HPANA28R	1755	2 - 376	3930	Gln-22 to Thr-31, Leu-91 to Leu-104.									
HPANA87	HPANA87R	1756	494 - 730	3931	Gln-13 to Gly-28.									
HPANB32	HPANB32R	1757	2 - 247	3932										
HPANC01	HPANC01R	1758	255 - 446	3933	Leu-1 to Ser-8.									
HPANE49	HPANE49R	1759	2 - 412	3934										
HPANE52	HPANE52R	1760	1 - 666	3935	Lys-64 to Tyr-75, Pro-114 to Lys-120, Leu-160 to Lys-169.									

HPANE87	HPANE87R	1761	119 - 652	3936	Tyr-172 to Gln-177, Pro-182 to Val-189.	L0752: 10, L0593: 9, L0775: 8, L0588: 8, L0666: 7, L0665: 7, L0592: 7, L0595: 7, L0363: 6, L0774: 6, L0747: 6, L0362: 6, H0422: 6, L0455: 5, L0659: 5, H0539: 5, H0170: 4, S0360: 4, L0657: 4, H0547: 4, L0749: 4, L0779: 4, L0757: 4, H0657: 3, H0412: 3, L0520: 3, L0761: 3, L0646: 3, L0375: 3, L0651: 3, L0783: 3, H0144: 3, H0520: 3, H0659: 3, H0670: 3, H0648: 3, L0740: 3, L0750: 3, L0756: 3, L0731: 3, L0759: 3, L0591: 3, L0608: 3, H0662: 2, S0376: 2, H0637: 2, H0619: 2, L0717: 2, S0280: 2, H0318: 2, T0010: 2, H0040: 2, H0413: 2, L0351: 2, H0646: 2, L0763: 2.		
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HPANJ67	HPANJ67R	1762	3 - 119	3937	Ser-5 to Ser-14, Gln-21 to Gln-28.						
HPANK61	HPANK61R	1763	170 - 310	3938				H0328: 2, H0674: 2, L0774: 2, L0805: 2, H0682: 2, L0731: 2, H0306: 1, L0770: 1, L0764: 1, L0809: 1, H0520: 1, H0660: 1, H0521: 1, L0744: 1, L0751: 1, L0750: 1, L0752: 1, S0026: 1, H0352: 1 and L0360: 1.			
HPCOB29	HPCOB29R	1764	2 - 139	3939							
HPCOB69	HPCOB69R	1765	47 - 118	3940							
HPCOI59	HPCOI59R	1766	3 - 308	3941	Pro-1 to Val-6.			H0659: 2			

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							S0214: 1, H0031: 1, H0628: 1, H0598: 1, H0038: 1, H0634: 1, H0616: 1, H0551: 1, H0412: 1, L0370: 1, H0494: 1, H0625: 1, S0440: 1, S0344: 1, H0529: 1, L0770: 1, L0646: 1, L0645: 1, L0648: 1, L0521: 1, L0775: 1, L0525: 1, L0805: 1, L0657: 1, L0782: 1, L0663: 1, L0665: 1, H0547: 1, H0519: 1, H0711: 1, H0659: 1, H0660: 1, H0518: 1, S0152: 1, H0521: 1, L0745: 1, L0759: 1, S0434: 1, L0590: 1, L0592: 1, L0594: 1, H0667: 1, H0423: 1, H0422: 1, S0424: 1 and H0506: 1.				
HPCOK93	HPCOK93R	1769	1 - 108	3944							
HPCOL81	HPCOL81R	1770	33 - 179	3945	Lys-42 to Val-49.						
HPCOO90	HPCOO90R	1771	3 - 335	3946	Ala-3 to Gly-9.						
HPCOO95	HPCOO95R	1772	343 - 2	3947	Tyr-12 to Ile-17, Pro-28 to Asn-33, Arg-45 to Asp-53.						
HPCOP23	HPCOP23R	1773	2 - 427	3948							

HPCOQ33	HPCOQ33R	1774	417 - 548	3949					L0803: 8, L0777: 8, L0794: 7, L0766: 7, H0144: 5, L0438: 5, H0547: 5, L0439: 5, H0013: 4, L0779: 4, H0441: 3, S0440: 3, L0762: 3, L0771: 3, L0662: 3, L0666: 3, L0665: 3, L0748: 3, L0752: 3, H0656: 2, H0341: 2, S0418: 2, S0356: 2, H0575: 2, H0328: 2, H0615: 2, H0040: 2, H0477: 2, T0041: 2, L0598: 2, L0763: 2, L0659: 2, L0663: 2, L0664: 2, H0659: 2, L0602: 2, S0406: 2, L0755: 2, L0759: 2, L0592: 2, H0624: 1, H0170: 1, H0171: 1, S0134: 1, H0583: 1, H0650: 1, H0657: 1, L0415: 1, S0116: 1, H0661: 1, H0664: 1, S0420: 1, L0005: 1, S0444: 1, S0360: 1, S0408: 1, S0046: 1, S0476: 1
HPCOQ85	HPCOQ85R	1775	2 - 259	3950					

HPCOQ92	HPCOQ92R	1776	483 - 641	3951			S0300: 1, L0717: 1, H0411: 1, H0486: 1, T0039: 1, H0318: 1, H0581: 1, H0123: 1, H0014: 1, H0354: 1, H0179: 1, S0003: 1, H0628: 1, H0032: 1, S0036: 1, L0060: 1, H0264: 1, H0412: 1, L0564: 1, H0625: 1, H0131: 1, H0646: 1, S0002: 1, L0770: 1, L0637: 1, L0761: 1, L0800: 1, L0764: 1, L0649: 1, L0804: 1, L0650: 1, L0519: 1, L0352: 1, H0519: 1, S0126: 1, H0658: 1, H0648: 1, H0672: 1, S0328: 1, S0330: 1, H0518: 1, H0696: 1, H0704: 1, S0027: 1, L0743: 1, L0754: 1, L0747: 1, L0758: 1, S0434: 1, L0591: 1, S0011: 1, H0543: 1, H0422: 1, H0506: 1 and H0721: 1.		
HPCOR41	HPCOR41R	1777	133 - 396	3952	Ala-44 to Gly-50.				



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							H0130: 1, H0647: 1, S0210: 1, S0426: 1, H0529: 1, L0637: 1, L0372: 1, L0649: 1, L0775: 1, L0651: 1, L0806: 1, L0657: 1, L0518: 1, L0788: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, L0438: 1, H0519: 1, H0689: 1, H0690: 1, H0659: 1, S0380: 1, H0696: 1, S0406: 1, H0436: 1, H0478: 1, H0727: 1, L0439: 1, L0731: 1, H0595: 1, S0434: 1, L0608: 1, H0667: 1, S0196: 1, H0422: 1, S0424: 1 and H0506: 1.			
HPCOV35	HPCOV35R	1780	151 - 657	3955	Lys-4 to Lys-16.					
HPCOV41	HPCOV41R	1781	3 - 356	3956						
HPCOX43	HPCOX43R	1782	158 - 418	3957	Asn-9 to Trp-14, Pro-20 to Arg-46.					
HPCPB38	HPCPB38R	1783	294 - 473	3958		L0439: 3, L0438: 1, H0659: 1, H0648: 1 and S0330: 1.				
HPCPD26	HPCPD26R	1784	3 - 314	3959						
HPCPE33	HPCPE33R	1785	308 - 427	3960		H0551: 11, L0766: 10, L0794: 8, S0026: 7,				

	H0556: 6, L0770: 6, H0659: 6, H0521: 6, L0740: 5, H0661: 4, H0638: 4, H0497: 4, H0560: 4, H0170: 3, H0341: 3, S0360: 3, H0318: 3, H0561: 3, L0731: 3, L0757: 3, H0265: 2, S0418: 2, S0420: 2, S0356: 2, S0132: 2, S0278: 2, T0115: 2, T0110: 2, H0083: 2, S0214: 2, H0622: 2, H0617: 2, S0364: 2, H0090: 2, T0042: 2, H0366: 2, H0646: 2, S0002: 2, H0529: 2, L0369: 2, L0769: 2, L0646: 2, L0776: 2, L0655: 2, L0809: 2, L0789: 2, L0666: 2, L0664: 2, L0777: 2, L0758: 2, L0593: 2, H0668: 2, H0543: 2, H0423: 2, T0002: 1, S0342: 1, H0716: 1, H0657: 1, S0212: 1, H0402: 1, L0005: 1, S0376: 1, H0580: 1, H0339: 1,				
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HPCPH50	HPCPH50R	1786	93 - 209	3961			S0194: 1, H0542: 1, H0422: 1 and H0506: 1.		
HPCPH51	HPCPH51R	1787	203 - 412	3962			H0659: 2, L0752: 2, L0595: 2 and H0686: 1.		
HPCPH52	HPCPH52R	1788	3 - 101	3963			Pro-10 to Val-15, Ser-25 to Asn-32.		
HPCPH68	HPCPH68R	1789	191 - 322	3964					
HPCPU27	HPCPU27R	1790	3 - 116	3965			Pro-29 to Gln-38.		
HPCPW09	HPCPW09R	1791	201 - 407	3966			Gln-47 to Lys-55.		
							L0766: 10, L0754: 9, S0358: 6, H0616: 6, H0551: 5, L0439: 5, H0657: 4, H0497: 4, S0003: 4, H0038: 4, S0422: 4, S0374: 4, H0659: 4, S0045: 3, H0644: 3, H0412: 3, H0529: 3, L0662: 3, L0805: 3, L0657: 3, L0663: 3, H0521: 3, H0624: 2, H0171: 2, S0040: 2, H0638: 2, S0418: 2, L0005: 2, S0376: 2, H0546: 2, H0046: 2, H0553: 2, H0169: 2, H0591: 2, H0413: 2, H0623: 2, L0646: 2, L0771: 2, L0803: 2, L0526: 2, L0666: 2, L0664: 2,		

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HPCPX80	HPCPX80R	1792	209 - 298	3967	His-25 to Lys-30.			H0659: 2, L0438: 1 and L0439: 1.			
HPCQO79	HPCQO79R	1793	74 - 256	3968	Thr-19 to Leu-24.			H0521: 13, L0659: 10, L0779: 10, H0551: 9, S0360: 6, S0214: 6, L0770: 6, L0649: 6, L0666: 6, L0731: 6, H0170: 5, H0638: 5, S0376: 5, H0580: 5, H0575: 5, H0553: 5, S0210: 5, L0662: 5, L0776: 5, L0657: 5, H0547: 5, L0439: 5, H0656: 4, S0358: 4, H0676: 4, H0574: 4, H0486: 4, H0318: 4, S0003: 4, L0655: 4,			
HPCQO91	HPCQO91R	1794	270 - 479	3969							

L0663: 4, L0665: 4, H0659: 4, L0756: 4, L0757: 4, H0445: 4, H0542: 4, S0212: 3, H0009: 3, L0157: 3, L0471: 3, H0024: 3, H0494: 3, L0763: 3, L0637: 3, L0646: 3, L0764: 3, S0052: 3, H0672: 3, L0748: 3, L0750: 3, L0752: 3, L0755: 3, L0608: 3, S0026: 3, H0543: 3, H0171: 2, H0556: 2, H0657: 2, L0785: 2, S0420: 2, L0005: 2, H0156: 2, S0474: 2, H0581: 2, H0251: 2, H0545: 2, H0373: 2, H0477: 2, H0412: 2, H0413: 2, T0041: 2, S0466: 2, H0641: 2, S0144: 2, L0372: 2, L0774: 2, L0805: 2, L0783: 2, L0664: 2, S0374: 2, L0438: 2, H0658: 2, H0670: 2, H0660: 2, H0539: 2, H0522: 2, H0436: 2, L0742: 2, L0777: 2,
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HPCQQ66	HPCQQ66R	1795	113 - 271	3970										
HPCQT27	HPCQT27R	1796	119 - 265	3971										
HPCQT88	HPCQT88R	1797	1 - 345	3972										
HPCQW64	HPCQW64R	1798	2 - 229	3973	Pro-3 to Cys-9, Asn-28 to Phe-37.									
HPCQW77	HPCQW77R	1799	259 - 408	3974					L0758: 6, L0779: 5, L0766: 4, L0731: 4,					

HPCQX47	HPCQX47R	1800	174 - 326	3975	Lys-1 to Val-6.
					S0360: 2, L0769: 2, L0649: 2, H0648: 2, L0744: 2, L0740: 2, L0747: 2, L0777: 2, L0755: 2, L0757: 2, L0599: 2, H0171: 1, T0049: 1, H0657: 1, H0255: 1, H0638: 1, S0408: 1, H0619: 1, H0037: 1, H0052: 1, L0471: 1, H0014: 1, H0316: 1, S0438: 1, L0520: 1, L0763: 1, L0770: 1, L0637: 1, L0761: 1, L0373: 1, L0764: 1, L0774: 1, L0775: 1, L0375: 1, L0776: 1, L0655: 1, L0527: 1, L0542: 1, L0382: 1, L0519: 1, H0144: 1, H0682: 1, H0659: 1, H0660: 1, H0696: 1, H0555: 1, S3012: 1, L0439: 1, L0751: 1, L0754: 1, L0745: 1, L0749: 1, L0752: 1, L0759: 1, H0542: 1, S0458: 1 and S0384: 1.

HPCRN90	HPCRN90R	1801	2 - 109	3976					
HPCTD21	HPCTD21R	1802	228 - 560	3977	Ser-8 to Lys-21, Gln-47 to Glu-52, Arg-72 to Arg-87.				
HPCTD23	HPCTD23R	1803	350 - 760	3978	Met-4 to Lys-18, Gln-44 to Glu-49, Arg-69 to Arg-84.				
HPCTD25	HPCTD25R	1804	269 - 598	3979	Asn-1 to Lys-20, Gln-46 to Glu-51, Arg-71 to Arg-86.				
HPCTD61	HPCTD61R	1805	354 - 713	3980	Asn-1 to Lys-21, Gln-47 to Glu-52, Arg-72 to Arg-87.				
HPCTF29	HPCTF29R	1806	2 - 595	3981					
HPCTF83	HPCTF83R	1807	1 - 177	3982		L0655: 22, H0648: 8, H0638: 4, H0318: 4, L0776: 4, L0659: 4, L0751: 4, L0747: 4, L0599: 4, S0358: 3, L0761: 3, L0775: 3, L0760: 2, H0255: 2, H0663: 2, S0360: 2, H0486: 2, L0142: 2, H0087: 2, L0662: 2, L0378: 2, L0653: 2, L0783: 2, L0666: 2, L0664: 2, L0665: 2, L0743: 2, L0756: 2, L0777: 2, L0362: 2, L0600: 2, H0650: 1,			

	H0657: 1, H0692: 1, H0381: 1, H0306: 1, H0402: 1, H0305: 1, S0376: 1, S0300: 1, H0441: 1, L0622: 1, L0623: 1, L0586: 1, H0635: 1, L0022: 1, H0042: 1, H0575: 1, H0581: 1, H0052: 1, H0597: 1, H0231: 1, H0109: 1, H0029: 1, H0039: 1, T0006: 1, H0031: 1, H0166: 1, H0673: 1, H0674: 1, H0163: 1, H0063: 1, H0413: 1, H0359: 1, H0396: 1, H0647: 1, H0646: 1, S0002: 1, H0529: 1, L0762: 1, L0769: 1, L0667: 1, L0772: 1, L0372: 1, L0771: 1, L0767: 1, L0768: 1, L0387: 1, L0766: 1, L0774: 1, L0784: 1, L0606: 1, L0607: 1, L0629: 1, L0657: 1, L0518: 1, L0782: 1, L0809: 1, L0787: 1, L0789: 1, L0790: 1, L0663: 1,				
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HPCTI39	HPCTI39R	1808	1 - 114	3983						
HPCTI86	HPCTI86R	1809	1 - 306	3984	Lys-37 to Arg-42, Ser-74 to Thr-81.					
HPCTN62	HPCTN62R	1810	341 - 451	3985	Arg-6 to Asp-15.					
HPCTO69	HPCTO69R	1811	23 - 538	3986						
HPCTP60	HPCTP60R	1812	191 - 343	3987			H0052: 3, H0624: 2, H0014: 2, H0375: 2, L0598: 2, L0662: 2, L0803: 2, L0792: 2, L0666: 2, L0664: 2, H0659: 2, L0742: 2, L0743: 2, L0754: 2, H0423: 2, H0171: 1, H0686: 1, S0360: 1, H0486: 1, H0194: 1, L0041: 1, L0471: 1, H0687: 1, H0040: 1, H0264: 1, S0440: 1, S0422: 1, L0761: 1, L0646: 1, L0804: 1,			

HPCTR60	HPCTR60R	1813	307 - 495	3988			L0352: 1, H0670: 1, L0744: 1, L0740: 1, L0780: 1, L0759: 1 and H0506: 1.		
							L0803: 2, H0413: 1, L0650: 1, L0666: 1, H0689: 1, H0659: 1, H0658: 1, L0758: 1, L0759: 1 and S0242: 1.		
HPCTT47	HPCTT47R	1814	3 - 128	3989	Gly-4 to Lys-9.				
HPCTV40	HPCTV40R	1815	3 - 377	3990					
HPCTV53	HPCTV53R	1816	2 - 274	3991	Pro-7 to Ala-13.				
HPCTV92	HPCTV92R	1817	2 - 205	3992					
HPCTX22	HPCTX22R	1818	1 - 153	3993	Asn-27 to Lys-36.		L0439: 11, L0740: 10, L0752: 10, L0659: 8, L0748: 7, L0005: 6, S0358: 6, L0471: 6, S0214: 6, L0803: 6, L0517: 6, L0666: 6, L0759: 6, L0664: 5, L0665: 5, S0126: 5, H0574: 4, H0156: 4, L0646: 4, L0771: 4, L0766: 4, S0374: 4, H0659: 4, L0754: 4, L0749: 4, L0731: 4, L0362: 4, H0170: 3, H0341: 3, H0632: 3, S0003: 3, H0413: 3, H0529: 3, L0369: 3,		

	L0770: 3, L0637: 3, L0775: 3, L0663: 3, S0378: 3, H0478: 3, S0026: 3, S0212: 2, S0360: 2, H0580: 2, S0045: 2, H0431: 2, H0331: 2, H0427: 2, H0599: 2, H0039: 2, H0553: 2, H0551: 2, S0002: 2, L0772: 2, L0653: 2, L0654: 2, L0776: 2, L0655: 2, L0661: 2, H0547: 2, H0519: 2, S0028: 2, L0755: 2, H0543: 2, H0624: 1, H0171: 1, T0002: 1, H0657: 1, H0656: 1, L0415: 1, S0116: 1, S0418: 1, S0420: 1, S0354: 1, L0430: 1, H0208: 1, H0642: 1, H0013: 1, L0021: 1, T0082: 1, S0010: 1, H0318: 1, H0052: 1, H0544: 1, H0123: 1, H0620: 1, H0024: 1, H0014: 1, H0275: 1, H0355: 1, H0510: 1, H0266: 1, H0290: 1, H0615: 1.	
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HPCTY38	HPCTY38R	1819	381 - 578	3994	L0483: 1, H0048: 1, H0644: 1, H0032: 1, H0068: 1, H0040: 1, H0380: 1, T0069: 1, H0560: 1, H0625: 1, H0561: 1, S0440: 1, H0509: 1, H0641: 1, H0646: 1, S0144: 1, S0422: 1, S0426: 1, L0373: 1, L0388: 1, L0651: 1, L0378: 1, L0809: 1, L0647: 1, L0438: 1, H0689: 1, H0683: 1, H0684: 1, H0648: 1, S0330: 1, H0539: 1, H0521: 1, S0013: 1, L0779: 1, L0758: 1, H0667: 1, H0136: 1, S0194: 1, H0542: 1, H0422: 1 and S0424: 1.		
					L0666: 19, L0752: 14, S0358: 12, L0770: 10, L0439: 10, L0754: 10, L0659: 8, H0574: 7, L0663: 7, L0664: 7, H0659: 7, L0758: 7, L0759: 7, S0408: 6, H0519: 6, L0740: 6, L0750: 6, L0731: 6.		



	S0436: 2, L0591: 2, L0581: 2, H0423: 2, H0624: 1, H0685: 1, H0583: 1, H0656: 1, H0341: 1, S0212: 1, S0282: 1, H0662: 1, H0638: 1, H0208: 1, S0045: 1, S0300: 1, H0455: 1, L0105: 1, H0123: 1, H0024: 1, H0239: 1, S6028: 1, S0250: 1, S0003: 1, H0615: 1, H0428: 1, T0006: 1, H0135: 1, H0616: 1, H0551: 1, S0386: 1, L0564: 1, T0041: 1, H0625: 1, H0509: 1, S0472: 1, H0646: 1, L0369: 1, L0762: 1, L0763: 1, L4747: 1, L0796: 1, L0639: 1, L0667: 1, L0772: 1, L0372: 1, L0642: 1, L0648: 1, L0767: 1, L0794: 1, L0804: 1, L0651: 1, L0653: 1, L0606: 1, L0607: 1, L0807: 1, L0527: 1, L0657: 1, L0512: 1, L0526: 1,	
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HPDOA92	HPDOA92R	1820	57 - 209	3995	Asp-1 to Leu-6.					
HPDOF32	HPDOF32R	1821	1 - 99	3996						
HPDOF81	HPDOF81R	1822	3 - 287	3997	Gln-20 to Leu-25.					
HPDOP05	HPDOP05R	1823	2 - 412	3998	Asp-11 to Val-19, Cys-36 to Asp-58, Lys-102 to Lys-111, Ile-115 to Ala-125, Val-127 to Gln-132.	L0747: 12, L0750: 12, H0052: 9, H0547: 8, H0659: 8, L0439: 8, L0752: 8, S0360: 7, S0408: 7, S0222: 6, S0010: 6, H0494: 6, H0144: 6, H0657: 5, S0358: 5, H0393: 5, H0373: 5, H0551: 5, L0775: 5, L0666: 5, L0758: 5, H0542: 5, H0486: 4, H0013: 4, H0545: 4, H0046: 4, L0471: 4, H0687: 4,				



	L0598: 2, L0638: 2, L0646: 2, L0764: 2, L0773: 2, L0768: 2, L0794: 2, L0766: 2, L0774: 2, L0806: 2, L0655: 2, L0809: 2, L0664: 2, L0665: 2, S0428: 2, H0725: 2, H0519: 2, S0126: 2, H0690: 2, H0682: 2, H0684: 2, S0328: 2, H0522: 2, H0696: 2, S0390: 2, S0028: 2, L0748: 2, L0755: 2, L0731: 2, L0759: 2, H0444: 2, S0436: 2, L0592: 2, L0599: 2, S0011: 2, H0136: 2, H0506: 2, H0624: 1, H0170: 1, H0686: 1, S0134: 1, S0430: 1, H0583: 1, H0650: 1, H0656: 1, S0282: 1, H0255: 1, H0661: 1, H0663: 1, H0662: 1, H0241: 1, H0300: 1, H0125: 1, S0420: 1, H0637: 1, H0580: 1, S0007: 1, S0046: 1, S0132: 1, S0278: 1,					
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HPDOP20	HPDOP20R	1824	3 - 512	3999				H0529: 1, L0536: 1, L0770: 1, L0761: 1, L0772: 1, L0373: 1, L0771: 1, L0648: 1, L0662: 1, L0803: 1, L0606: 1, L0629: 1, L0636: 1, L0517: 1, L0526: 1, L0783: 1, L0384: 1, L0544: 1, L0367: 1, H0697: 1, S0122: 1, H0689: 1, H0711: 1, H0683: 1, H0658: 1, H0660: 1, H0648: 1, H0672: 1, H0539: 1, H0710: 1, H0518: 1, H0521: 1, H0555: 1, H0478: 1, S0037: 1, L0740: 1, L0754: 1, L0756: 1, L0777: 1, L0753: 1, S0434: 1, L0588: 1, L0591: 1, L0594: 1, H0668: 1, S0026: 1, H0422: 1 and S0424: 1.		
HPDOS87	HPDOS87R	1825	3 - 272	4000						
HPDOU54	HPDOU54R	1826	3 - 287	4001				H0694: 48, L0777: 14, H0521: 11, L0794: 10, L0748: 10, L0747: 10, S0214: 9, S0360: 8.		



S0003: 8, H0644: 8, L0439: 8; H0553: 7, L0662: 7, L0659: 7, L0588: 7, H0543: 7, H0038: 6, L0646: 6, H0436: 6, L0740: 6, H0341: 5, S0358: 5, H0580: 5, H0545: 5, H0494: 5, L0666: 5, L0665: 5, L0779: 5, L0599: 5, H0542: 5, H0656: 4, H0486: 4, H0046: 4, H0014: 4, H0551: 4, S0440: 4, H0529: 4, L0764: 4, L0809: 4, S0126: 4, S0406: 4, L0757: 4, S0436: 4, L0591: 4, L0485: 4, L0362: 4, H0423: 4, H0624: 3, S0376: 3, S0444: 3, S0408: 3, S0410: 3, H0581: 3, H0031: 3, H0090: 3, S0142: 3, L0770: 3, L0637: 3, L0772: 3, L0521: 3, L0766: 3, L0774: 3, L0663: 3, L0664: 3, T0068: 3, H0547: 3, H0539: 3, L0758: 3,
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S0222: 1, H0431: 1, H0455: 1, H0600: 1, H0592: 1, H0586: 1, H0331: 1, H0574: 1, H0485: 1, T0040: 1, T0109: 1, H0427: 1, H0156: 1, H0575: 1, H0004: 1, H0274: 1, S0346: 1, H0310: 1, H0052: 1, L0040: 1, H0597: 1, H0572: 1, H0123: 1, H0050: 1, L0471: 1, H0375: 1, H0594: 1, H0687: 1, H0252: 1, H0039: 1, L0142: 1, H0628: 1, H0617: 1, H0032: 1, H0169: 1, H0674: 1, L0455: 1, H0068: 1, H0598: 1, H0135: 1, H0163: 1, H0634: 1, H0264: 1, H0272: 1, H0413: 1, T0069: 1, T0041: 1, H0625: 1, H0561: 1, S0450: 1, S0438: 1, H0509: 1, H0131: 1, H0654: 1, S0344: 1, S0210: 1, S0002: 1, S0426: 1, L0451: 1, L0520: 1,
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HPDOZ43	HPDOZ43R	1827	1 - 504	4002								
HPDPC65	HPDPC65RA	1828	2 - 178	4003								
HPDPC90	HPDPC90RA	1829	294 - 485	4004	Pro-6 to Gly-35, Arg-41 to Glu-47.							
HPDPH14	HPDPH14R	1830	94 - 291	4005								

HPDPK37	HPDPK37R	1831	1 - 420	4006					
HPDPN83	HPDPN83R	1832	365 - 3	4007				L0784: 2, H0428: 1, H0644: 1, S0366: 1, L0659: 1, L0636: 1, L0789: 1 and H0658: 1.	
HPDPP69	HPDPP69R	1833	260 - 463	4008				L0766: 2 and H0658: 2.	
HPDPQ10	HPDPQ10R	1834	369 - 581	4009	Gln-15 to Arg-20, Arg-35 to Ser-40.				
HPDPQ16	HPDPQ16R	1835	244 - 456	4010	Ile-5 to Lys-20.			L0794: 4, H0351: 3, H0083: 2, H0520: 2, H0658: 2, H0657: 1, H0341: 1, S0358: 1, L0586: 1, L0021: 1, T0110: 1, H0328: 1, H0040: 1, H0616: 1, H0625: 1, S0438: 1, S0440: 1, S0150: 1, H0130: 1, H0641: 1, L0800: 1, L0768: 1, L0803: 1, L0776: 1, L0657: 1, H0660: 1, S0328: 1, S0380: 1, S0406: 1, L0747: 1, H0343: 1, H0136: 1, H0423: 1, H0422: 1 and S0424: 1.	
HPDPR73	HPDPR73R	1836	80 - 463	4011	Asp-28 to His-35, Phe-43 to Trp-48, Asn-81 to Arg-86.				

HPDPS51	HPDPS51R	1837	2 - 214	4012	L0770: 4, L0771: 4, L0769: 3, L0757: 3, L0766: 2, L0779: 2, L0758: 2, H0170: 1, H0686: 1, S0476: 1, H0586: 1, L0637: 1, L0761: 1, L0803: 1, L0774: 1, L0776: 1, L0659: 1, L0809: 1, L0791: 1, H0658: 1, H0696: 1, S3012: 1, S0390: 1, L0747: 1, L0752: 1, L0753: 1, L0759: 1, S0434: 1, L0592: 1 and H0543: 1.		
HPDPS90	HPDPS90R	1838	2 - 421	4013			
HPDPT86	HPDPT86R	1839	378 - 533	4014	Asp-17 to Asn-30.	L0439: 4, H0658: 2, S0474: 1, L0794: 1, L0804: 1, L0791: 1, L0755: 1 and L0599: 1.	
HPDPU66	HPDPU66R	1840	2 - 262	4015			
HPDPX12	HPDPX12RP 00B	1841	2 - 418	4016			
HPDPY83	HPDPY83RP 00B	1842	148 - 405	4017	Lys-32 to Glu-39, Glu-43 to Ala-50, Ala-52 to Glu-80.		
HPDQC34	HPDQC34R	1843	1 - 693	4018			
HPDQG58	HPDQG58R	1844	2 - 235	4019			
HPDQH11	HPDQH11R	1845	2 - 334	4020			

HPDQH34	HPDQH34R	1846	105 - 308	4021	Gln-12 to Ser-19, Gln-40 to Gln-54.			
HPDQI50	HPDQI50R	1847	3 - 545	4022		H0052: 11, L0439: 10, L0775: 8, H0046: 7, L0748: 7, L0438: 6, L0750: 6, L0666: 5, L0599: 5, S0358: 4, H0620: 4, H0038: 4, H0413: 4, L0369: 4, L0769: 4, L0659: 4, L0665: 4, S0328: 4, L0758: 4, S0418: 3, S0442: 3, S0410: 3, H0619: 3, H0599: 3, L0662: 3, L0768: 3, L0774: 3, L0653: 3, H0660: 3, H0521: 3, L0731: 3, S0434: 3, L0601: 3, S0026: 3, S0424: 3, H0556: 2, T0002: 2, H0295: 2, H0583: 2, H0656: 2, S0376: 2, S0444: 2, H0580: 2, S0045: 2, S0046: 2, S0222: 2, H0592: 2, H0586: 2, N0009: 2, H0013: 2, H0575: 2, H0618: 2, H0318: 2, H0196: 2, H0012: 2, H0373: 2,		

		T0010: 2, S6028: 2, S0214: 2, H0031: 2, L0456: 2, H0708: 2, H0551: 2, H0264: 2, S0440: 2, H0509: 2, H0529: 2, L0763: 2, L0638: 2, L0637: 2, L0764: 2, L0381: 2, L0657: 2, L0783: 2, L0663: 2, S0152: 2, H0478: 2, S0028: 2, L0741: 2, L0777: 2, L0596: 2, L0588: 2, L0589: 2, L0605: 2, L0604: 2, H0665: 2, H0136: 2, H0543: 2, H0170: 1, H0265: 1, S0040: 1, H0717: 1, H0657: 1, L0417: 1, L0785: 1, H0381: 1, S0116: 1, H0341: 1, H0664: 1, H0402: 1, H0450: 1, S0356: 1, S0360: 1, H0208: 1, S0476: 1, H0411: 1, H0409: 1, H0613: 1, H0587: 1, H0497: 1, H0333: 1, H0643: 1, H0574: 1, L0623: 1, T0039: 1, H0427: 1,					
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L0021: 1, T0082: 1, H0036: 1, H0253: 1, S0010: 1, T0048: 1, S0182: 1, S0474: 1, H0263: 1, T0110: 1, L0040: 1, H0327: 1, L0471: 1, H0010: 1, H0024: 1, H0015: 1, H0416: 1, H0290: 1, H0292: 1, S0003: 1, L0483: 1, H0030: 1, H0553: 1, H0674: 1, S0364: 1, S0366: 1, H0059: 1, S0038: 1, L0564: 1, T0042: 1, H0494: 1, S0016: 1, H0560: 1, H0641: 1, H0646: 1, S0426: 1, L0371: 1, L0770: 1, L0761: 1, L0667: 1, L0772: 1, L0372: 1, L0646: 1, L0642: 1, L0374: 1, L0766: 1, L0651: 1, L0378: 1, L0776: 1, L0655: 1, L0511: 1, L0656: 1, L0636: 1, L0382: 1, L0664: 1, H0698: 1, H0702: 1, H0723: 1, H0520: 1, H0547: 1,
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HPDQI55	HPDQI55R	1848	1 - 441	4023		L0779: 5, L0803: 4, H0170: 3, L0663: 3, L0777: 3, H0687: 2, H0328: 2, H0038: 2, L0521: 2, L0809: 2, L0759: 2, L0589: 2, H0171: 1, S0046: 1, S0300: 1, L0717: 1, H0369: 1, H0550: 1, S0222: 1, H0586: 1, H0574: 1, H0042: 1, S0010: 1, H0544: 1, H0620: 1, H0014: 1.			

								H0373: 1, H0510: 1, S0003: 1, H0644: 1, H0316: 1, S0036: 1, H0063: 1, H0264: 1, H0509: 1, L0762: 1, L0662: 1, L0794: 1, L0649: 1, L0659: 1, L0518: 1, L0783: 1, L0789: 1, H0144: 1, H0547: 1, H0659: 1, H0658: 1, S0328: 1, H0696: 1, L0747: 1, L0780: 1, L0731: 1, L0588: 1, L0591: 1, L0599: 1 and L0595: 1.			
HPDQI70	HPDQI70R	1849	2 - 646	4024							
HPDQL55	HPDQL55R	1850	256 - 711	4025	Pro-5 to Arg-25, Lys-32 to Ser-39, Pro-63 to Pro-79, Pro-115 to His-121.			L0774: 3, L0809: 2, H0483: 1, H0306: 1, H0599: 1, H0618: 1, H0083: 1, H0644: 1, H0617: 1, H0606: 1, H0087: 1, L0369: 1, L0763: 1, L0643: 1, L0662: 1, L0794: 1, L0804: 1, L0790: 1, L0665: 1, H0658: 1, H0696: 1, L0748: 1, L0780: 1 and L0757: 1.			
HPDQR20	HPDQR20R	1851	1 - 639	4026				L0777: 21, L0748: 16, L0439: 12, S0360: 9,			

	L0659: 9, L0666: 9, L0803: 8, L0662: 7, L0747: 7, L0794: 6, L0663: 5, S0406: 5, L0770: 4, L0731: 4, L0758: 4, S0026: 4, S0356: 3, L0717: 3, H0156: 3, L0769: 3, L0809: 3, L0664: 3, H0520: 3, H0672: 3, H0521: 3, H0696: 3, L0750: 3, S0192: 3, H0542: 3, H0423: 3, H0624: 2, H0657: 2, S0420: 2, S0358: 2, S0376: 2, S0408: 2, H0013: 2, S0003: 2, S0214: 2, H0264: 2, H0412: 2, H0413: 2, S0440: 2, L0764: 2, L0766: 2, L0804: 2, L0774: 2, L0775: 2, L0806: 2, L0655: 2, L0665: 2, S0374: 2, L0438: 2, H0547: 2, H0519: 2, H0689: 2, H0660: 2, S0380: 2, H0522: 2, S0206: 2, L0749: 2, L0752: 2, L0759: 2, L0361: 2.
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S0242: 2, H0170: 1, H0171: 1, L0448: 1, H0685: 1, H0716: 1, S0114: 1, H0656: 1, L0785: 1, S0400: 1, S0442: 1, S0444: 1, S0300: 1, S0222: 1, H0431: 1, H0586: 1, H0632: 1, L0623: 1, H0069: 1, H0036: 1, H0581: 1, H0309: 1, H0263: 1, H0327: 1, H0545: 1, H0150: 1, L0471: 1, H0024: 1, H0014: 1, T0010: 1, H0083: 1, H0252: 1, H0615: 1, H0688: 1, H0622: 1, L0483: 1, H0068: 1, S0366: 1, H0598: 1, H0163: 1, H0090: 1, H0040: 1, T0067: 1, H0623: 1, T0069: 1, H0494: 1, S0372: 1, S0448: 1, H0714: 1, H0641: 1, S0142: 1, S0210: 1, L0369: 1, L0646: 1, L0641: 1, L0771: 1, L0387: 1, L0651: 1, L0378: 1, L0653: 1,							
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HPDQR88	HPDQR88R	1852	2 - 550	4027	Gln-121 to Glu-136, Ala-153 to Ser-162, Ala-176 to Ser-182.					
HPDQS14	HPDQS14R	1853	113 - 325	4028						
HPDQS25	HPDQS25R	1854	25 - 273	4029						
HPDQS63	HPDQS63R	1855	25 - 258	4030	Phe-25 to Arg-34, Cys-51 to His-56, Glu-66 to Ser-75.					
HPDQS66	HPDQS66R	1856	134 - 322	4031		H0658: 2, L0745: 2, S0422: 1, H0648: 1 and L0731: 1.				
HPDQS76	HPDQS76R	1857	41 - 175	4032	His-2 to Trp-13, Lys-22 to Cys-31.	L0748: 9, L0774: 3, H0331: 2, H0632: 2, L0526: 2, H0658: 2, L0581: 2, H0574: 1 and L0790: 1.				
HPDQT32	HPDQT32R	1858	3 - 410	4033	Gly-17 to Glu-26, Lys-32 to Leu-37, Phe-46 to Thr-52,	H0542: 11, H0265: 7, H0543: 7, L0751: 5, S0424: 5, H0556: 4,				

Ile-103 to Gly-109, Lys-128 to Gln-136.	S0420: 4, S0010: 4, S0142: 4, L0659: 4, L0743: 4, L0747: 4, L0753: 4, H0657: 3, H0370: 3, H0618: 3, H0251: 3, H0545: 3, H0457: 3, H0620: 3, H0644: 3, H0560: 3, L0775: 3, L0663: 3, H0672: 3, S3012: 3, L0748: 3, S0212: 2, S0418: 2, S0360: 2, H0580: 2, S0222: 2, H0427: 2, H0253: 2, S0049: 2, H0327: 2, L0471: 2, H0617: 2, H0124: 2, S0366: 2, H0412: 2, L0667: 2, L0655: 2, H0690: 2, H0682: 2, H0658: 2, H0670: 2, H0660: 2, H0627: 2, S0027: 2, L0741: 2, L0740: 2, H0506: 2, H0170: 1, T0002: 1, H0686: 1, H0381: 1, H0484: 1, H0255: 1, H0563: 1, H0664: 1, H0638: 1, S0358: 1, H0675: 1, H0637: 1, S0468: 1,					
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HPDQU81	HPDQU81R	1859	3 - 269	4034	Pro-25 to Thr-32.	L0666: 1, L0664: 1, L0665: 1, H0593: 1, H0684: 1, H0435: 1, H0659: 1, S0328: 1, S0330: 1, H0539: 1, S0378: 1, H0521: 1, H0555: 1, H0631: 1, L0744: 1, L0750: 1, L0777: 1, L0752: 1, L0757: 1, L0758: 1, L0596: 1, L0485: 1, L0593: 1, L0601: 1, S0011: 1, S0026: 1, S0192: 1 and H0352: 1. L0731: 4, L0775: 3, L0740: 3, H0170: 2, S0426: 2, L0770: 2, L0646: 2, L0766: 2, L0754: 2, H0344: 1, H0295: 1, H0393: 1, H0592: 1, H0318: 1, S6028: 1, H0038: 1, H0551: 1, L0642: 1, L0803: 1, L0774: 1, L0776: 1, L0663: 1, H0658: 1, S0332: 1, L0748: 1, L0777: 1, L0752: 1, L0757: 1, H0445: 1, S0424: 1 and S0384: 1.
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HPDQV07	HPDQV07R	1860	2 - 421	4035				
HPDQV49	HPDQV49R	1861	246 - 401	4036				
HPDQW39	HPDQW39R	1862	68 - 550	4037	Asn-20 to Asp-25, Met-75 to Asp-81, Arg-144 to Thr-152.	AR104: 42, AR089: 22, AR060: 7, AR096: 4, AR055: 2, AR061: 1		
HPDQX13	HPDQX13R	1863	113 - 391	4038	Lys-1 to Leu-23, Ala-27 to Ser-34, Gly-36 to Phe-44.			
HPDQY23	HPDQY23R	1864	3 - 476	4039				
HPDQY65	HPDQY65R	1865	3 - 437	4040				
HPDQY88	HPDQY88R	1866	164 - 340	4041				
HPDQY95	HPDQY95R	1867	29 - 430	4042	Leu-11 to Cys-24, Leu-30 to Ser-36, Gly-93 to Glu-99.			
HPDQZ30	HPDQZ30R	1868	212 - 538	4043				
HPDQZ65	HPDQZ65R	1869	3 - 506	4044	Ser-120 to Tyr-126, Gly-137 to Arg-142, Ser-160 to Ser-168.			
HPDRA44	HPDRA44R	1870	1 - 525	4045				
HPDRA50	HPDRA50R	1871	1 - 384	4046				
HPDRF65	HPDRF65R	1872	230 - 559	4047	Glu-1 to Pro-9.			
HPDRG34	HPDRG34R	1873	79 - 270	4048		H0031: 2, H0135: 1, H0272: 1 and H0658: 1.		
HPDRG73	HPDRG73R	1874	2 - 481	4049	Ala-2 to Gly-8.			
HPDRM77	HPDRM77R	1875	1 - 177	4050				
HPDRM93	HPDRM93R	1876	3 - 302	4051				
HPDRO04	HPDRO04R	1877	2 - 307	4052	Gly-1 to Cys-24.			

						Cys-27 to Gly-43, Ala-46 to Trp-54, Ala-56 to Arg-68, Phe-83 to Arg-93.						
HPDRO64	HPDRO64R	1878	249 - 509	4053		Thr-4 to His-17, Ser-21 to Gln-27.					S0132: 1, H0156: 1, H0575: 1, H0551: 1, H0658: 1, H0670: 1, H0555: 1 and L0439: 1.	
HPDRP36	HPDRP36R	1879	3 - 323	4054		Thr-57 to Phe-62, Gly-68 to Phe-73, His-86 to Tyr-92, Asp-97 to Phe-103.					L0766: 11, L0752: 7, L0754: 5, H0547: 4, S0358: 3, S0022: 3, L0756: 3, L0777: 3, H0625: 2, L0065: 2, S0438: 2, L0805: 2, L0776: 2, H0658: 2, S0328: 2, L0740: 2, L0745: 2, L0747: 2, L0750: 2, L0731: 2, L0601: 2, H0542: 2, H0543: 2, H0423: 2, S0424: 2, H0341: 1, H0661: 1, H0664: 1, H0306: 1, H0402: 1, H0638: 1, S0360: 1, H0580: 1, H0645: 1, H0443: 1, H0357: 1, H0592: 1, H0587: 1, H0574: 1, H0486: 1, H0270: 1, H0156: 1, T0048: 1, H0052: 1,	

								H0375: 1, H0687: 1, H0328: 1, H0169: 1, H0598: 1, H0551: 1, H0413: 1, T0042: 1, H0561: 1, S0422: 1, H0529: 1, L0520: 1, L0536: 1, L0772: 1, L0649: 1, L0803: 1, L0809: 1, L0666: 1, L0665: 1, H0144: 1, H0520: 1, H0519: 1, H0659: 1, H0651: 1, S0380: 1, H0696: 1, S0404: 1, S0406: 1, H0555: 1, L0744: 1, L0749: 1, L0753: 1, L0757: 1, L0759: 1, H0445: 1, S0434: 1, S0436: 1, L0599: 1, L0608: 1, L0594: 1 and H0422: 1.			
HPDRP41	HPDRP41R	1880	2 - 622	4055	Gly-8 to Val-14, Gln-20 to Asp-27, Met-79 to His-88, Arg-171 to Tyr-183, Pro-198 to Gly-204.						
HPDRQ66	HPDRQ66R	1881	27 - 290	4056		L0748: 3, H0556: 2, S0420: 2, S0045: 2, H0171: 1, H0265: 1, S0134: 1, H0657: 1					

							H0341: 1, S0110: 1, H0661: 1, H0305: 1, H0580: 1, S0007: 1, S0046: 1, S0132: 1, S0278: 1, H0257: 1, H0069: 1, H0575: 1, T0048: 1, H0327: 1, H0252: 1, H0634: 1, H0412: 1, H0059: 1, H0633: 1, S0344: 1, H0529: 1, L0521: 1, L0806: 1, L0805: 1, H0435: 1, H0658: 1, H0672: 1, S0378: 1, L0747: 1, L0599: 1, S0026: 1 and H0542: 1.			
HPDRQ84	HPDRQ84R	1882	1 - 441	4057			Gly-6 to Ser-16, Glu-19 to Ala-33, Glu-44 to Lys-60, Ile-135 to Lys-147.			
HPDRR71	HPDRR71R	1883	1 - 543	4058			Ala-3 to Lys-11, Gly-112 to Glu-117.			
HPDRS43	HPDRS43R	1884	59 - 211	4059						
HPDRS46	HPDRS46R	1885	3 - 332	4060			Lys-94 to Ser-100.			
HPDRS87	HPDRS87R	1886	2 - 508	4061			Lys-32 to Glu-38, Ser-44 to Ser-55, Gln-67 to Gly-78, Glu-85 to Glu-90, Gly-108 to Ser-114, Phe-149 to Lys-158.			

HPDRT36	HPDRT36R	1887	59 - 214	4062	Lys-25 to Arg-36.	L0754: 19, L0731: 18, H0521: 15, L0777: 11, L0766: 8, L0755: 7, H0581: 6, L0659: 6, L0751: 6, H0486: 5, H0266: 5, H0553: 5, L0662: 5, L0663: 5, H0144: 5, L0439: 5, S0276: 5, H0638: 4, S0360: 4, H0644: 4, S0374: 4, S0330: 4, L0740: 4, L0756: 4, L0599: 4, L0362: 4, H0423: 4, H0657: 3, H0663: 3, H0580: 3, H0575: 3, S0003: 3, H0622: 3, H0124: 3, H0264: 3, H0623: 3, S0002: 3, L0520: 3, L0764: 3, L0775: 3, L0655: 3, L0519: 3, H0519: 3, H0659: 3, H0658: 3, S0328: 3, L0744: 3, L0747: 3, L0759: 3, S0026: 3, S0194: 3, H0624: 2, H0656: 2, H0341: 2, S0354: 2, S0408: 2, S0046: 2, H0619: 2, H0013: 2, H0250: 2,		
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H0046: 1, L0157: 1, H0565: 1, H0024: 1, S0388: 1, H0267: 1, S0250: 1, S0214: 1, H0328: 1, H0030: 1, H0383: 1, H0673: 1, H0169: 1, H0316: 1, H0163: 1, H0090: 1, H0591: 1, H0040: 1, H0634: 1, H0488: 1, H0268: 1, H0412: 1, H0413: 1, H0056: 1, L0435: 1, H0494: 1, S0370: 1, H0646: 1, H0652: 1, S0344: 1, S0426: 1, L0371: 1, L0646: 1, L0800: 1, L0765: 1, L0648: 1, L0768: 1, L0389: 1, L0552: 1, L0774: 1, L0805: 1, L0653: 1, L0776: 1, L0658: 1, L0542: 1, L0809: 1, L0647: 1, H0701: 1, H0691: 1, S0126: 1, H0711: 1, H0683: 1, H0518: 1, S0454: 1, S0013: 1, H0479: 1, S0206: 1, L0743: 1, S0260: 1, H0343: 1,
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HPDRT37	HPDRT37R	1888	3 - 560	4063	Ala-2 to Asp-9, Arg-18 to Gly-26, Asn-34 to Arg-43, Ala-52 to Asp-57.	L0584: 1, H0542: 1 and S0412: 1.		
HPDRT38	HPDRT38R	1889	2 - 196	4064	Leu-48 to Lys-63.			
HPDRU03	HPDRU03R	1890	2 - 334	4065				
HPDRU37	HPDRU37R	1891	1 - 297	4066	Glu-11 to Pro-16, Arg-46 to Tyr-56, Asp-63 to Asp-69.			
HPDRU71	HPDRU71R	1892	458 - 703	4067				
HPDRV73	HPDRV73R	1893	1 - 528	4068	Glu-54 to Val-64, Leu-97 to Leu-105.			
HPDRV79	HPDRV79R	1894	300 - 596	4069	Ser-14 to Gly-20.	L0794: 6, L0758: 6, L0747: 5, L0770: 4, L0809: 4, H0620: 3, L0764: 3, H0658: 3, H0618: 2, H0012: 2, H0135: 2, L0769: 2, L0771: 2, L0773: 2, L0662: 2, L0803: 2, L0532: 2, S0126: 2, L0756: 2, S6024: 1, S0282: 1, H0638: 1, S0420: 1, L0717: 1, S0222: 1, H0441: 1, H0333: 1, L0622: 1, H0309: 1, H0597: 1, S0388: 1, S0051: 1,		

HPDRW09	HPDRW09R	1895	1 - 231	4070	Ala-31 to Gln-37, Lys-63 to Ser-69.	T0010: 1, H0271: 1, H0687: 1, L0483: 1, H0604: 1, H0030: 1, H0181: 1, H0617: 1, H0412: 1, L0667: 1, L0646: 1, L0800: 1, L0643: 1, L0374: 1, L0364: 1, L0766: 1, L0649: 1, L0804: 1, L0523: 1, L0805: 1, L0655: 1, L0607: 1, L0657: 1, L0559: 1, L0659: 1, L0517: 1, L0529: 1, L0647: 1, L0787: 1, L0789: 1, L0666: 1, L0663: 1, L0665: 1, T0068: 1, L0438: 1, H0670: 1, H0627: 1, L0748: 1, L0439: 1, L0751: 1, L0777: 1, L0731: 1, L0757: 1, S0031: 1, L0605: 1, H0542: 1, H0543: 1, H0423: 1, L0697: 1 and S0462: 1.		
HPDRW51	HPDRW51R	1896	192 - 587	4071				
HPDRY37	HPDRY37R	1897	2 - 322	4072	Pro-3 to Gly-8, Pro-70 to Pro-85.			

HPDRZ11	HPDRZ11R	1898	1 - 354	4073	Arg-13 to Gly-26, Asn-35 to Gln-40.			
HPDRZ29	HPDRZ29R	1899	3 - 509	4074	Val-30 to Trp-36, Ala-53 to Glu-67.	H0457: 9, L0766: 7, H0046: 5, H0650: 4, H0634: 3, L0659: 3, L0439: 3, H0716: 2, H0656: 2, H0254: 2, H0255: 2, H0333: 2, H0253: 2, H0081: 2, H0083: 2, H0628: 2, L0761: 2, L0800: 2, H0658: 2, L0750: 2, H0543: 2, H0422: 2, H0265: 1, H0657: 1, S0001: 1, S0420: 1, S0354: 1, S0376: 1, S0360: 1, H0722: 1, S0045: 1, H0550: 1, S0222: 1, H0614: 1, H0613: 1, H0069: 1, H0427: 1, H0575: 1, H0318: 1, H0581: 1, H0052: 1, H0327: 1, H0545: 1, H0041: 1, H0050: 1, H0354: 1, H0266: 1, H0179: 1, H0428: 1, H0622: 1, S0366: 1, S0036: 1, H0087: 1, H0264: 1, H0488: 1, L0435: 1,		

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							L0758: 2, H0170: 1, H0645: 1, H0351: 1, H0370: 1, H0497: 1, S0388: 1, T0067: 1, L0772: 1, L0643: 1, L0662: 1, L0794: 1, L0804: 1, L0774: 1, L0776: 1, L0666: 1, L0663: 1, L0665: 1, L0438: 1, S0044: 1, L0745: 1, L0749: 1, L0755: 1, L0757: 1 and S0031: 1.			
HPDVB70	HPDVB70R	1903	2 - 778	4078						
HPDVC28	HPDVC28R	1904	50 - 136	4079						
HPDVE55	HPDVE55R	1905	89 - 220	4080	Pro-8 to Pro-13.					
HPDVG06	HPDVG06R	1906	3 - 326	4081	Gln-22 to Val-33, Pro-37 to Gly-45, Ser-56 to Thr-65, Arg-82 to Thr-92.					
HPDVG67	HPDVG67R	1907	193 - 450	4082	Glu-79 to Gln-86.					
HPDVI25	HPDVI25R	1908	1 - 510	4083	Met-32 to Lys-37, Asp-44 to Ala-60.					
HPDVI95	HPDVI95R	1909	3 - 338	4084	Ala-32 to Thr-42, Lys-55 to Phe-60, Asp-85 to Gly-90, Arg-95 to Thr-100.					
HPDVK74	HPDVK74R	1910	3 - 425	4085	Ile-20 to Gly-29, Asn-82 to Thr-87.					

HPDVK79	HPDVK79R	1911	61 - 597	4086	Arg-8 to Lys-13, Gly-35 to Lys-42, Ala-48 to Lys-54.			
HPDVK93	HPDVK93R	1912	2 - 697	4087				
HPDVL36	HPDVL36R	1913	8 - 265	4088				
HPDVL45	HPDVL45R	1914	1 - 303	4089	Gly-1 to Phe-8, Pro-39 to Thr-61, Pro-66 to Phe-71, Arg-84 to Pro-89.	H0656: 3, S0218: 1, S0116: 1, S0356: 1, H0586: 1, H0333: 1, H0486: 1, H0427: 1, S0280: 1, H0545: 1, H0135: 1, H0087: 1, H0695: 1, H0547: 1, H0435: 1, H0658: 1, H0670: 1, H0672: 1, H0521: 1, L0439: 1, H0543: 1 and H0423: 1.		
HPDVL52	HPDVL52R	1915	60 - 350	4090	Ala-5 to Val-11, Leu-15 to Lys-23, Lys-39 to Ile-44.	H0656: 1, S0116: 1, S0376: 1, T0110: 1, T0042: 1, H0494: 1, L0649: 1, L0774: 1, L0665: 1, H0658: 1, L0748: 1, L0757: 1, H0667: 1 and H0543: 1.		
HPDVM61	HPDVM61R	1916	101 - 364	4091	Lys-13 to Leu-24, Arg-31 to Pro-54.			
HPDVM63	HPDVM63R	1917	1 - 576	4092	Ala-34 to Thr-46, Asp-59 to Lys-73, Ala-86 to Gln-94, Pro-99 to Gln-109, Glu-129 to Thr-141,			

HPDVM86	HPDVM86R	1918	2 - 406	4093	Asp-160 to Asn-168. Ala-33 to Cys-41, Thr-58 to Pro-66.	H0521: 43, S0278: 39, S0144: 30, S0142: 26, H0522: 18, S0344: 15, S0002: 14, H0638: 13, H0580: 11, H0641: 10, L0755: 10, L0599: 10, H0250: 9, H0271: 8, H0622: 8, H0575: 7, S0426: 7, L0775: 7, L0776: 7, L0751: 7, L0754: 7, H0125: 6, S0376: 6, S0132: 6, H0069: 6, H0090: 6, S0360: 5, H0486: 5, S0022: 5, L0731: 5, H0584: 4, H0657: 4, S0354: 4, S0358: 4, S0140: 4, H0581: 4, H0674: 4, L0764: 4, L0657: 4, L0665: 4, S0052: 4, S0428: 4, L0749: 4, L0752: 4, H0445: 4, L0591: 4, H0656: 3, L0785: 3, H0663: 3, H0370: 3, H0042: 3, H0004: 3, H0318: 3, H0031: 3, H0059: 3, L0769: 3,		
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	L0372: 3, L0646: 3, L0806: 3, L0659: 3, L0666: 3, S0126: 3, H0658: 3, H0518: 3, H0555: 3, L0750: 3, H0255: 2, H0662: 2, H0637: 2, H0431: 2, H0574: 2, H0632: 2, H0545: 2, H0083: 2, S0214: 2, H0644: 2, H0032: 2, H0634: 2, S0440: 2, H0652: 2, L0770: 2, L0637: 2, L0771: 2, L0653: 2, L0783: 2, L0664: 2, H0660: 2, H0134: 2, H0187: 2, S3014: 2, L0748: 2, L0777: 2, L0758: 2, S0434: 2, L0595: 2, L0601: 2, H0167: 1, H0159: 1, S0342: 1, S0114: 1, S0134: 1, H0650: 1, H0661: 1, H0664: 1, H0306: 1, H0402: 1, H0192: 1, S0418: 1, H0645: 1, H0393: 1, H0537: 1, T0104: 1, H0586: 1, H0497: 1, H0331: 1, H0101: 1,	
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	H0635: 1, H0427: 1, H0309: 1, H0231: 1, H0544: 1, H0546: 1, H0046: 1, H0012: 1, H0620: 1, H0024: 1, H0107: 1, H0179: 1, H0416: 1, H0188: 1, S0003: 1, H0688: 1, H0029: 1, H0553: 1, L0142: 1, H0628: 1, L0055: 1, H0383: 1, H0673: 1, H0189: 1, H0124: 1, H0068: 1, H0063: 1, H0087: 1, S0472: 1, L0369: 1, L0762: 1, L0761: 1, L0772: 1, L0773: 1, L0662: 1, L0767: 1, L0387: 1, L0766: 1, L0649: 1, L0533: 1, L0522: 1, L0774: 1, L0784: 1, L0652: 1, L0655: 1, L0379: 1, L0629: 1, L0544: 1, L0367: 1, L0368: 1, L0787: 1, L0788: 1, S0053: 1, S0216: 1, S0374: 1, S0296: 1, H0682: 1, H0684: 1, S0328: 1, S0332: 1,	
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HPDVO67	HPDVO67R	1919	1 - 465	4094	Glu-1 to Asp-6, Thr-11 to Glu-20, Val-61 to Gln-66.	H0214: 1, S0404: 1, H0576: 1, L0779: 1, L0780: 1, L0757: 1, L0593: 1, S0011: 1, H0665: 1, H0542: 1, H0423: 1 and S0458: 1.		
HPDVQ74	HPDVQ74R	1920	3 - 278	4095	Pro-1 to Ala-9, Arg-17 to Glu-25.	AR039: 4, AR096: 4, AR052: 2, AR089: 2, AR061: 2, AR060: 2, AR104: 2, AR033: 1, AR055: 1, AR053: 0 L0666: 4, H0253: 2, H0622: 2, H0670: 2, L0743: 2, H0181: 1, L0372: 1, L0773: 1, L0767: 1, L0657: 1, L0665: 1, H0658: 1, L0751: 1, L0749: 1, L0779: 1, L0777: 1, L0758: 1 and L0593: 1.		
HPDVQ82	HPDVQ82R	1921	29 - 421	4096		H0658: 2		
HPDVT30	HPDVT30R	1922	3 - 284	4097		L0754: 2, H0685: 1, T0010: 1, H0658: 1 and H0423: 1.		
HPDVT37	HPDVT37R	1923	1 - 333	4098				
HPDVU28	HPDVU28R	1924	91 - 693	4099	Val-1 to Glu-9, Pro-26 to Gly-31, Tyr-67 to Glu-74,			

HPDVU72	HPDVU72R	1925	3 - 548	4100	<p>Phe-107 to Glu-118, Lys-162 to Arg-173.</p> <p>Ser-1 to His-7, Thr-15 to Arg-29, His-31 to Val-42, Pro-52 to Pro-94, Glu-113 to Ala-131, Lys-161 to Arg-167.</p>	<p>L0777: 6, L0766: 5, L0749: 5, L0601: 4, L0758: 3, H0617: 2, L0769: 2, L0794: 2, L0805: 2, L0657: 2, L0665: 2, H0693: 2, S0028: 2, L0439: 2, L0751: 2, L0747: 2, L0779: 2, L0588: 2, S0114: 1, H0650: 1, H0657: 1, H0402: 1, H0638: 1, S0354: 1, S0360: 1, S0045: 1, S0626: 1, H0550: 1, H0156: 1, H0253: 1, H0421: 1, T0115: 1, H0150: 1, H0014: 1, S0051: 1, S0628: 1, H0688: 1, L0483: 1, H0181: 1, H0163: 1, H0090: 1, H0087: 1, H0560: 1, H0646: 1, S0210: 1, L0763: 1, L0638: 1, L0761: 1, L0784: 1, L0806: 1, L0776: 1, L0655: 1, L0659: 1, L0384: 1, L0789: 1, H0690: 1,</p>		
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HPDVU88	HPDVU88R	1926	3 - 191	4101				H0684: 1, H0658: 1, L0752: 1, L0755: 1, L0731: 1, L0757: 1, L0595: 1, S0276: 1 and H0506: 1.		
HPDVV78	HPDVV78R	1927	78 - 644	4102			Pro-6 to Ala-16.			
HPDWA35	HPDWA35R	1928	3 - 302	4103				H0658: 2		
HPDWA88	HPDWA88R	1929	3 - 560	4104						
HPDWB40	HPDWB40R	1930	175 - 306	4105			Arg-1 to Glu-8, Ala-31 to Trp-39.			
HPDWC30	HPDWC30R	1931	231 - 383	4106						
HPDWC75	HPDWC75R	1932	1 - 390	4107			Ala-3 to Ala-10, Pro-15 to Pro-23, Glu-79 to Ser-88, Pro-115 to Arg-122.			
HPDWD44	HPDWD44R	1933	214 - 471	4108				H0271: 13, H0436: 11, L0766: 8, H0581: 5, L0754: 5, S0242: 5, H0556: 4, H0635: 4, L0800: 4, L0662: 4, L0804: 4, L0655: 4, L0659: 4, L0789: 4, L0751: 4, L0757: 4, L0591: 4, S0356: 3, H0069: 3, H0416: 3, L0803: 3, L0747: 3, H0445: 3, H0423: 3, H0422: 3, H0395: 2,		

	S0134: 2, H0662: 2, H0402: 2, S0354: 2, S0046: 2, S0132: 2, H0587: 2, H0642: 2, H0014: 2, H0179: 2, H0644: 2, H0032: 2, H0090: 2, H0396: 2, H0633: 2, S0422: 2, L0375: 2, L0806: 2, L0607: 2, L0666: 2, L0663: 2, S0052: 2, S0053: 2, S0216: 2, H0521: 2, L0740: 2, L0779: 2, L0777: 2, L0758: 2, L0596: 2, L0599: 2, H0394: 1, S0114: 1, H0657: 1, H0656: 1, S0298: 1, H0306: 1, S0376: 1, H0411: 1, H0607: 1, H0632: 1, H0257: 1, H0492: 1, H0486: 1, L0021: 1, H0318: 1, H0196: 1, H0545: 1, H0457: 1, H0083: 1, S6028: 1, L0483: 1, H0591: 1, H0634: 1, H0623: 1, H0560: 1, H0641: 1, S0344: 1, L0770: 1, L0372: 1.				
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HPDWD67	HPDWD67R	1934	220 - 2	4109	Asp-65 to Gly-73.	L0646: 1, L0794: 1, L0774: 1, L0653: 1, L0776: 1, L0657: 1, L0783: 1, L0664: 1, L0665: 1, S0428: 1, S0374: 1, H0689: 1, H0690: 1, H0658: 1, H0672: 1, S0378: 1, H0518: 1, H0576: 1, H0478: 1, S3014: 1, L0749: 1, H0543: 1 and S0458: 1.		
HPDWD69	HPDWD69R	1935	3 - 353	4110	Ser-1 to His-19, Val-86 to Pro-105, Pro-110 to Met-117.	L0588: 18, S0408: 16, S0007: 12, S0444: 11, H0677: 11, H0648: 10, L0769: 9, H0670: 9, S0328: 9, H0651: 8, S0406: 8, H0657: 7, H0341: 7, H0402: 7, H0659: 7, L0748: 7, H0543: 7, T0049: 6, H0251: 6, L0775: 6, L0742: 6, H0422: 6, L0471: 5, H0617: 5, S0440: 5, L0517: 5, S0374: 5, H0658: 5, H0696: 5, L0749: 5, H0423: 5, H0295: 4, S0114: 4, S0134: 4,		

	H0656: 4, H0639: 4, H0687: 4, H0606: 4, L0767: 4, L0518: 4, L5286: 4, H0682: 4, L0752: 4, L0759: 4, L0605: 4, L0361: 4, H0685: 3, H0294: 3, H0305: 3, S0356: 3, S0358: 3, S0360: 3, H0722: 3, S0046: 3, L0622: 3, H0486: 3, T0109: 3, T0003: 3, T0067: 3, H0412: 3, S0438: 3, S0422: 3, L0520: 3, L0371: 3, L0770: 3, L0768: 3, L0766: 3, L5574: 3, L0376: 3, L0776: 3, S0126: 3, H0689: 3, L0740: 3, L0758: 3, H0542: 3, H0352: 3, T0002: 2, H0159: 2, S0040: 2, H0713: 2, H0716: 2, S0218: 2, L0785: 2, H0661: 2, H0638: 2, H0125: 2, S0410: 2, H0351: 2, H0586: 2, H0587: 2, H0333: 2, H0492: 2, L0623: 2, S0182: 2,
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HPDWD81	HPDWD81R	1936	1 - 378	4111	Asn-60 to Gly-72, Pro-83 to Trp-114, Ser-117 to Arg-126.	L0807: 1, L0542: 1, L0519: 1, L0530: 1, L0790: 1, L0663: 1, H0144: 1, H0724: 1, H0660: 1, H0666: 1, H0672: 1, H0518: 1, H0521: 1, S0190: 1, H0134: 1, H0187: 1, H0436: 1, S014: 1, S0028: 1, L0751: 1, L0779: 1, L0757: 1, S0031: 1, H0445: 1, S0436: 1, H0668: 1, S0026: 1, S0276: 1 and S0424: 1.		
HPDWE11	HPDWE11R	1937	2 - 121	4112	Arg-1 to Gln-9.	H0575: 2, L0002: 1, S0336: 1, H0487: 1, L0762: 1, L0637: 1, L0805: 1, L0659: 1, H0658: 1, L0777: 1 and L0731: 1.		
HPDWE64	HPDWE64R	1938	248 - 559	4113				
HPDWF93	HPDWF93R	1939	1 - 507	4114	Pro-3 to Pro-12.			
HPDVG51	HPDVG51R	1940	169 - 342	4115	Phe-1 to Cys-13, Gly-28 to Ser-35.	H0038: 5, H0616: 3, L0752: 3, S0418: 2, H0620: 2, H0547: 2, L0602: 2, H0521: 2,		

							L0751: 2, S0212: 1, S0282: 1, H0638: 1, S0358: 1, S0007: 1, H0261: 1, H0575: 1, S0346: 1, H0596: 1, L0471: 1, L0163: 1, H0071: 1, H0510: 1, S0003: 1, H0488: 1, S0038: 1, H0509: 1, H0649: 1, S0144: 1, L0803: 1, S0374: 1, H0519: 1, S0126: 1, H0658: 1, H0518: 1, S0013: 1, S0044: 1, L0743: 1, L0744: 1, L0748: 1, L0759: 1, L0599: 1 and S0424: 1.			
HPDWL56	HPDWL56R	1941	2 - 388	4116						
HPDWL70	HPDWL70R	1942	174 - 308	4117						
HPDWN46	HPDWN46R	1943	1 - 585	4118	Arg-21 to Gly-32, Pro-63 to Ser-79, Thr-92 to Pro-100, Glu-107 to Glu-126, Glu-133 to Ser-146, Ser-148 to Thr-157.	H0556: 30, H0659: 9, L0439: 9, S0406: 8, H0494: 7, S0360: 6, L0771: 6, H0634: 5, S0206: 5, L0777: 5, H0265: 4, H0657: 4, S0328: 4, S0152: 4, S0146: 4, L0748: 4, L0751: 4, L0749: 4, H0423: 4, S0040: 3, H0497: 3, H0623: 3.				

	H0529: 3, L0761: 3, L0665: 3, H0144: 3, H0555: 3, S0026: 3, H0656: 2, H0341: 2, S0212: 2, S0418: 2, S0356: 2, H0675: 2, S0046: 2, H0411: 2, H0586: 2, H0581: 2, H0615: 2, H0553: 2, H0591: 2, S0440: 2, S0422: 2, L0772: 2, L0438: 2, H0711: 2, H0521: 2, S0404: 2, S3014: 2, L0743: 2, L0740: 2, H0170: 1, H0171: 1, H0159: 1, H0686: 1, S0342: 1, H0294: 1, S0114: 1, T0049: 1, S0116: 1, H0661: 1, H0458: 1, S0420: 1, S0376: 1, S0444: 1, H0437: 1, S6022: 1, H0550: 1, H0362: 1, H0642: 1, H0574: 1, H0559: 1, S0280: 1, H0590: 1, H0004: 1, H0363: 1, H0263: 1, H0596: 1, H0081: 1, H0014: 1, H0638: 1, H0628: 1,	
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									L0055: 1, H0673: 1, H0068: 1, H0551: 1, T0069: 1, L0435: 1, H0625: 1, S0002: 1, L0369: 1, L0637: 1, L0764: 1, L0774: 1, L0775: 1, L0375: 1, L0378: 1, L0806: 1, L0805: 1, L0655: 1, L0606: 1, L0657: 1, L0783: 1, L0382: 1, L0792: 1, H0701: 1, S0374: 1, H0519: 1, S0126: 1, H0658: 1, H0670: 1, H0648: 1, S0390: 1, S0037: 1, L0744: 1, L0747: 1, L0779: 1, L0731: 1, L0759: 1, H0445: 1, S0434: 1, L0584: 1, H0667: 1, S0194: 1, H0542: 1, H0543: 1, H0422: 1 and S0424: 1.			
HPDWN65	HPDWN65R	1944	1 - 246	4119								
HPDWN69	HPDWN69R	1945	2 - 607	4120	Gly-2 to Pro-9, Ser-24 to Thr-33.							
HPDWO08	HPDWO08R	1946	351 - 704	4121				L0766: 5, H0551: 3, L0769: 3, L0639: 3, H0327: 2, S0002: 2, L0764: 2, L0659: 2,				

HPDWO29	HPDWO29R	1947	386 - 568	4122	His-1 to Gly-13.	L0663: 2, L0777: 2, S0356: 1, S0360: 1, S0410: 1, L0717: 1, H0261: 1, H0550: 1, S0222: 1, T0109: 1, H0575: 1, T0048: 1, H0052: 1, S0051: 1, L0455: 1, H0124: 1, H0135: 1, H0063: 1, H0087: 1, L0763: 1, L0770: 1, L0796: 1, L0761: 1, L0643: 1, L0374: 1, L0771: 1, L0626: 1, L0635: 1, L0542: 1, L0809: 1, L0665: 1, L0565: 1, H0547: 1, H0658: 1, H0522: 1, L0756: 1, L0758: 1 and L0366: 1.		
HPDWO50	HPDWO50R	1948	27 - 455	4123	Arg-90 to Lys-95, Pro-121 to Trp-129.			
HPDWO61	HPDWO61R	1949	2 - 358	4124				
HPDWO82	HPDWO82R	1950	1 - 342	4125	Ala-3 to Glu-8.	L0770: 12, H0657: 10, H0659: 9, L0776: 8, H0648: 8, L0755: 8, L0774: 7, S0410: 6, H0494: 6, L0769: 6, L0750: 6, S0408: 5, S0440: 5, L0775: 5,		

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HPDWS61	HPDWS61R	1951	73 - 321	4126	Asp-15 to Val-20.	S0182: 1, S0049: 1, H0563: 1, H0081: 1, H0620: 1, H0014: 1, H0373: 1, H0083: 1, H0375: 1, H0428: 1, H0708: 1, H0634: 1, H0412: 1, H0413: 1, L0475: 1, H0386: 1, L0598: 1, H0529: 1, L0520: 1, L0762: 1, L0371: 1, L0638: 1, L0373: 1, L0646: 1, L0773: 1, L0521: 1, L0662: 1, L0805: 1, L0655: 1, L0517: 1, L0540: 1, L0542: 1, L0526: 1, L0809: 1, L0545: 1, L0791: 1, L0663: 1, L0665: 1, H0691: 1, H0547: 1, H0690: 1, H0435: 1, H0660: 1, H0651: 1, S0380: 1, S0406: 1, L0749: 1, L0780: 1, H0668: 1, H0653: 1, S0242: 1, S0276: 1, H0542: 1, H0422: 1 and H0506: 1.		
						H0617: 8, S0404: 8, H0484: 7, H0550: 7.		



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HPDWT55	HPDWT55R	1952	3 - 503	4127	Ala-37 to Ser-42, Gly-127 to Thr-134.	L0483: 1, H0033: 1, H0111: 1, H0032: 1, H0166: 1, S0438: 1, L0762: 1, L0504: 1, L0381: 1, L0803: 1, L0375: 1, L0376: 1, L0509: 1, L0515: 1, L0518: 1, L0782: 1, L0544: 1, L0541: 1, L0543: 1, H0693: 1, S0126: 1, H0651: 1, L0743: 1, L0751: 1, L0777: 1, L0753: 1, H0445: 1, H0667: 1, S0194: 1 and S0398: 1.		
HPDWT56	HPDWT56R	1953	12 - 746	4128	Arg-4 to Gly-17, Pro-39 to Lys-46, His-96 to Arg-102.	L0774: 3, H0658: 3, L0803: 2, L0439: 2, H0619: 1, H0586: 1, H0309: 1, S0366: 1, L0659: 1 and S0052: 1.		
HPDWU47	HPDWU47R	1954	1 - 705	4129				
HPDWU55	HPDWU55R	1955	1 - 702	4130	Leu-4 to Phe-9, Gly-29 to Glu-39.	L0748: 18, L0755: 7, H0251: 6, L0777: 6, H0658: 4, L0754: 4, L0779: 4, S0360: 3, S0276: 3, H0674: 2, L0767: 2, L0766: 2		

HPDWU60	HPDWU60R	1956	2 - 568	4131	Pro-50 to Trp-55.	L0775: 2, L0809: 2, H0689: 2, L0757: 2, S0358: 1, S0046: 1, H0013: 1, H0427: 1, H0546: 1, H0046: 1, H0123: 1, H0252: 1, H0031: 1, H0617: 1, L0769: 1, L0773: 1, L0662: 1, L0649: 1, L0774: 1, L0375: 1, L0776: 1, L0636: 1, L0783: 1, L0382: 1, L0666: 1, L0663: 1, L0665: 1, H0144: 1, H0670: 1, S0328: 1, H0696: 1, S0027: 1, L0758: 1, L0759: 1 and S0434: 1.		
HPDWU60	HPDWU60R	1956	2 - 568	4131	Pro-50 to Trp-55.	L0766: 7, L0748: 6, L0771: 5, S0422: 3, H0519: 3, L0749: 3, L0756: 3, H0735: 2, H0641: 2, H0529: 2, L0659: 2, S0374: 2, L0758: 2, H0484: 1, S0442: 1, S0358: 1, S0410: 1, S0007: 1, H0632: 1, L0483: 1, H0606: 1, H0268: 1, S0150: 1, L0763: 1.		

								L0637: 1, L0764: 1, L0768: 1, L0774: 1, L0653: 1, L0809: 1, L0666: 1, H0144: 1, L0438: 1, H0520: 1, H0547: 1, H0658: 1, S0328: 1, H0539: 1, S0406: 1, S0027: 1, L0744: 1, L0751: 1, L0754: 1, L0750: 1, L0777: 1, L0592: 1, L0608: 1, L0593: 1, H0543: 1 and H0422: 1.			
HPDWU63	HPDWU63R	1957	2 - 370	4132	Ala-51 to Tyr-56, Ala-92 to Ser-101, Ser-118 to Ile-123.						
HPFMP90	HPFMP90R	1958	38 - 163	4133	Asp-14 to Ala-19.						
								L0740: 3, L0758: 3, S0242: 3, L0598: 2, L0766: 2, L0803: 2, H0435: 2, H0648: 2, L0748: 2, L0756: 2, L0731: 2, L0757: 2, H0170: 1, S0300: 1, H0431: 1, H0046: 1, H0687: 1, S0003: 1, H0674: 1, H0616: 1, T0067: 1, UNKWN: 1, L0770: 1, L0637: 1, L0373: 1, L0765: 1, L0794: 1, L0804: 1,			

							L0775: 1, L0784: 1, L0805: 1, L0776: 1, L0666: 1, L0664: 1, L0665: 1, L0438: 1, H0689: 1, L0439: 1, L0754: 1, L0750: 1, L0759: 1 and L0480: 1.			
HPIAL09	HPIAL09R	1959	209 - 394	4134		Phe-5 to Leu-11, Ser-20 to Arg-45.				
HSAMY44	HSAMY44R	1960	3 - 182	4135		Gly-4 to Asn-9.				
HSAYW59	HSAYW59R	1961	2 - 364	4136		Pro-11 to Lys-16, Val-18 to Arg-45, Asn-56 to Glu-67.	H0255: 2, S0114: 1, L0510: 1 and S0216: 1.			
HSCPJ17	HSCPJ17R	1962	2 - 655	4137						
HSDIA22	HSDIA22R	1963	114 - 212	4138						
HSDI165	HSDI165R	1964	239 - 412	4139			L0809: 5, L0666: 4, L0747: 3, L0750: 3, L0764: 2, L0803: 2, L0774: 2, L0651: 2, L0663: 2, L0664: 2, L0748: 2, L0756: 2, L0779: 2, L0755: 2, H0669: 1, H0392: 1, H0600: 1, S0346: 1, H0494: 1, H0646: 1, L0763: 1, L0371: 1, L0372: 1, L0775: 1, L0659: 1, L0518: 1, L0788: 1, L0665: 1, S0330: 1, S0392: 1,			

HSDIX73	HSDIX73R	1965	2 - 187	4140			L0749: 1, L0752: 1, L0757: 1, S0260: 1, L0596: 1, L0591: 1 and L0608: 1.		
HSDJI25	HSDJI25R	1966	2 - 169	4141	Ser-20 to Ser-31.				
HSDZE12	HSDZE12R	1967	40 - 141	4142	Trp-1 to Ala-10.		AR033: 4, AR089: 3, AR096: 3, AR060: 3, AR061: 2, AR053: 2, AR055: 1, AR039: 0, AR052: 0 L0774: 3, L0752: 3, L0592: 3, H0625: 2, L0662: 2, L0747: 2, L0777: 2, H0580: 1, L0717: 1, H0455: 1, S0280: 1, H0251: 1, H0633: 1, L0773: 1, L0768: 1, L0794: 1, L0803: 1, L0775: 1, L0653: 1, L0776: 1, L0661: 1, L0659: 1, L0526: 1, L0809: 1, L0665: 1, H0658: 1, H0696: 1, L0755: 1, L0731: 1, L0757: 1, L0759: 1 and H0352: 1.		
HSDZJ21	HSDZJ21R	1968	40 - 180	4143	Lys-18 to Lys-30.				
HSIFF84	HSIFF84R	1969	3 - 80	4144	Pro-14 to Lys-26.				
HSKJR50	HSKJR50R	1970	2 - 400	4145	Leu-117 to Trp-123.				

HSLHT27	HSLHT27R	1971	2 - 196	4146	Asn-45 to Ser-54.				
HSODB16	HSODB16R	1972	1 - 174	4147				H0596: 5, S0388: 4, H0598: 4, H0595: 4, S0412: 4, S0282: 3, S0280: 2, H0594: 2, H0366: 2, H0542: 2, H0395: 1, H0589: 1, S0356: 1, H0411: 1, H0592: 1, H0559: 1, H0427: 1, S0050: 1, H0373: 1, S0344: 1, H0436: 1, S0260: 1, S0194: 1 and H0506: 1.	
HSPSB24	HSPSB24R	1973	1 - 612	4148	Glu-77 to Arg-82, Pro-132 to Met-139.				
HSPSB70	HSPSB70R	1974	3 - 539	4149	Ile-1 to Ala-11, Asp-67 to Leu-78, Asn-81 to Ser-90, Pro-96 to Glu-110, Ala-164 to Ala-171, Gln-173 to Lys-179.				
HSPSB74	HSPSB74R	1975	1 - 162	4150	Ala-1 to Cys-21, Trp-23 to Ser-33.				
HSPSB80	HSPSB80R	1976	2 - 631	4151					
HSPSC30	HSPSC30R	1977	1 - 342	4152	Leu-43 to Thr-58.				
HSPSE86	HSPSE86R	1978	3 - 293	4153	Ser-41 to Ile-50, Gln-55 to Glu-65, Cys-69 to Asp-78.			L0755: 5, L0748: 4, H0616: 3, L0769: 3, L0752: 3, L0731: 3, L0757: 3, S0356: 2, S0408: 2, S0046: 2,	

L0770: 2, L0771: 2, L0776: 2, L0526: 2, L0747: 2, L0750: 2, L0756: 2, L0758: 2, L0759: 2, L0588: 2, H0170: 1, L0459: 1, H0484: 1, S0358: 1, S0360: 1, H0637: 1, S0045: 1, S0132: 1, H0393: 1, S0278: 1, T0039: 1, H0427: 1, H0318: 1, S0049: 1, H0009: 1, H0081: 1, T0003: 1, H0051: 1, H0083: 1, S0003: 1, H0622: 1, H0708: 1, H0316: 1, H0038: 1, H0063: 1, H0412: 1, S0038: 1, S0150: 1, H0529: 1, L0762: 1, L0763: 1, L0646: 1, L0644: 1, L0768: 1, L0766: 1, L0774: 1, L0775: 1, L0661: 1, L0657: 1, L0782: 1, L0788: 1, L0666: 1, L0665: 1, H0683: 1, H0660: 1, S0378: 1, S0406: 1, L0777: 1, H0445: 1 and H0542: 1.
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HSPSG03	HSPSG03R	1979	3 - 191	4154	Leu-41 to Asp-48.	H0124: 19, H0052: 10, L0751: 7, L0747: 7, H0255: 6, H0441: 6, H0556: 5, S0222: 5, H0265: 4, S0360: 4, H0620: 4, L0655: 4, H0144: 4, L0439: 4, L0596: 4, L0601: 4, S0132: 3, H0575: 3, H0123: 3, H0012: 3, H0024: 3, H0617: 3, H0087: 3, H0529: 3, L0764: 3, L0662: 3, L0766: 3, L0663: 3, L0565: 3, L0438: 3, H0660: 3, L0743: 3, L0740: 3, H0445: 3, H0218: 2, H0585: 2, S0418: 2, S0444: 2, S0408: 2, H0208: 2, S0278: 2, H0261: 2, H0333: 2, H0706: 2, H0581: 2, S0049: 2, H0009: 2, L0471: 2, S0051: 2, T0010: 2, H0083: 2, H0594: 2, T0006: 2, H0628: 2, H0038: 2, S0440: 2, S0142: 2, S0344: 2, L5565: 2, L5566: 2,		
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	L0776: 2, L0657: 2, L0659: 2, L0666: 2, L0665: 2, H0683: 2, H0658: 2, H0670: 2, S0146: 2, L0748: 2, L0756: 2, L0752: 2, L0755: 2, L0731: 2, L0758: 2, L0587: 2, L0361: 2, H0624: 1, T0002: 1, H0141: 1, H0717: 1, S0402: 1, H0295: 1, S0114: 1, L0785: 1, H0341: 1, S0212: 1, S0282: 1, H0722: 1, S0007: 1, S0046: 1, S0476: 1, H0619: 1, S0300: 1, H0351: 1, H0411: 1, H0392: 1, H0574: 1, H0492: 1, L0622: 1, L0623: 1, H0244: 1, H0250: 1, H0156: 1, H0618: 1, T0048: 1, H0434: 1, H0309: 1, H0597: 1, H0231: 1, H0544: 1, H0546: 1, H0046: 1, H0150: 1, H0050: 1, S0050: 1, H0016: 1, H0373: 1, H0051: 1, H0071: 1,					
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S6028: 1, H0271: 1,  
H0687: 1, S0022: 1,  
H0252: 1, H0615: 1,  
H0039: 1, H0033: 1,  
H0604: 1, H0424: 1,  
H0213: 1, L0055: 1,  
H0674: 1, H0068: 1,  
H0135: 1, H0040: 1,  
H0551: 1, H0412: 1,  
H0059: 1, H0100: 1,  
L0351: 1, L0435: 1,  
H0494: 1, S0306: 1,  
S0150: 1, H0647: 1,  
S0210: 1, S0002: 1,  
L0369: 1, L0762: 1,  
L0640: 1, L0371: 1,  
L0770: 1, L0769: 1,  
L0638: 1, L0637: 1,  
L5575: 1, L0772: 1,  
L0646: 1, L0641: 1,  
L0374: 1, L0648: 1,  
L0767: 1, L0768: 1,  
L0774: 1, L0653: 1,  
L0493: 1, L0559: 1,  
L0635: 1, L0783: 1,  
L0519: 1, L0545: 1,  
L0541: 1, L0543: 1,  
L0788: 1, L4559: 1,  
S0053: 1, L0352: 1,  
H0520: 1 H0547: 1

HSPSG13	HSPSG13R	1980	2 - 784	4155			H0690: 1, H0682: 1, H0435: 1, H0539: 1, H0521: 1, S0404: 1, S3012: 1, S0037: 1, S3014: 1, S0028: 1, S0206: 1, L0742: 1, L0750: 1, L0779: 1, L0753: 1, L0757: 1, L0593: 1, S0276: 1, H0423: 1, H0506: 1, H0008: 1 and H0293: 1.		
HSPSG42	HSPSG42R	1981	3 - 596	4156		Glu-6 to Thr-11, His-31 to Asn-36, Thr-68 to Ile-76, Met-80 to Arg-89, Glu-123 to Gln-132, Arg-140 to Leu-147.			
HSPSG50	HSPSG50R	1982	123 - 608	4157		Glu-1 to Ile-6.			
HSPSG89	HSPSG89R	1983	94 - 651	4158		Pro-36 to Lys-44, Ile-46 to Ser-52, Val-82 to Gln-89, Gly-99 to Ala-104, Tyr-165 to Leu-171.			
HSPSH39	HSPSH39R	1984	11 - 793	4159					
HSPSH41	HSPSH41R	1985	3 - 431	4160					
HSPSH49	HSPSH49R	1986	3 - 539	4161					
HSPSI65	HSPSI65R	1987	3 - 734	4162		Asp-7 to Lys-15, His-142 to Glu-156,			

HSPSJ71	HSPSJ71R	1988	2 - 310	4163	Glu-181 to Phe-190.	H0124: 19, H0052: 10, L0751: 7, L0747: 7, H0255: 6, H0441: 6, H0556: 5, S0222: 5, H0265: 4, S0360: 4, H0620: 4, L0655: 4, H0144: 4, L0439: 4, L0596: 4, L0601: 4, S0132: 3, H0575: 3, H0123: 3, H0012: 3, H0024: 3, H0617: 3, H0087: 3, H0529: 3, L0764: 3, L0662: 3, L0766: 3, L0663: 3, L0565: 3, L0438: 3, H0660: 3, L0743: 3, L0740: 3, H0445: 3, H0218: 2, H0585: 2, S0418: 2, S0444: 2, S0408: 2, H0208: 2, S0278: 2, H0261: 2, H0333: 2, H0706: 2, H0581: 2, S0049: 2, H0009: 2, L0471: 2, S0051: 2, T0010: 2, H0083: 2, H0594: 2, T0006: 2, H0628: 2, H0038: 2, S0440: 2, S0142: 2, S0344: 2,		
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HSPSJ72	HSPSJ72R	1989	1 - 444	4164				H0520: 1, H0547: 1, H0690: 1, H0682: 1, H0435: 1, H0539: 1, H0521: 1, S0404: 1, S3012: 1, S0037: 1, S3014: 1, S0028: 1, S0206: 1, L0742: 1, L0750: 1, L0779: 1, L0753: 1, L0757: 1, L0593: 1, S0276: 1, H0423: 1, H0506: 1, H0008: 1 and H0293: 1. H0617: 14, L0665: 14, L0657: 11, H0682: 11, H0521: 10, S0360: 8, H0423: 7, H0657: 5, H0620: 5, H0687: 5, L0664: 5, H0547: 5, S0406: 5, S0376: 4, H0059: 4, H0641: 4, S0422: 4, L0648: 4, L0768: 4, H0658: 4, H0670: 4, H0666: 4, H0522: 4, H0584: 3, H0713: 3, H0716: 3, H0341: 3, H0638: 3, H0618: 3, H0039: 3, H0087: 3, H0509: 3, L0662: 3, L0775: 3, L0659: 3, H0689: 3,
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	H0150: 1, L0471: 1, H0012: 1, H0023: 1, H0024: 1, H0014: 1, S0388: 1, H0071: 1, H0107: 1, H0275: 1, H0354: 1, H0510: 1, H0247: 1, H0271: 1, H0286: 1, H0615: 1, H0688: 1, H0553: 1, H0181: 1, H0124: 1, H0316: 1, H0477: 1, H0100: 1, H0561: 1, S0450: 1, S0438: 1, H0529: 1, L0371: 1, L0769: 1, L5575: 1, L0761: 1, L0772: 1, L0646: 1, L0645: 1, L0766: 1, L0774: 1, L0375: 1, L0651: 1, L0523: 1, L0806: 1, L0658: 1, L0559: 1, L0783: 1, L0384: 1, L0793: 1, H0698: 1, H0726: 1, H0519: 1, H0683: 1, H0660: 1, S0330: 1, S0454: 1, H0696: 1, S0146: 1, H0576: 1, H0727: 1, H0732: 1, S0027: 1, S0031: 1, L0596: 1,				
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HSPSQ22	HSPSQ22R	1990	1 - 339	4165	Pro-6 to Gly-13, Pro-23 to Lys-32, Lys-94 to Ala-112.	H0542: 1, H0422: 1, S0456: 1 and H0352: 1.
HSPSQ57	HSPSQ57R	1991	1 - 327	4166	Glu-17 to Asp-32.	H0683: 242, S0358: 3, L0745: 3, H0656: 2, H0484: 2, S0354: 2, H0370: 2, H0427: 2, T0010: 2, H0039: 2, H0521: 2, S0001: 1, H0619: 1, H0592: 1, H0042: 1, H0618: 1, H0327: 1, H0024: 1, H0266: 1, H0288: 1, H0135: 1, H0551: 1, H0623: 1, H0130: 1, S0210: 1, L0774: 1, L0654: 1, L0438: 1, H0593: 1, H0539: 1, L0439: 1, H0707: 1, H0422: 1 and H0293: 1.
HSPSY67	HSPSY67R	1992	2 - 442	4167		
HSPSZ69	HSPSZ69R	1993	2 - 406	4168		
HSPTA57	HSPTA57R	1994	244 - 438	4169		
HSPTN57	HSPTN57R	1995	2 - 61	4170	Ala-1 to Lys-9, Val-11 to Trp-17.	
HSSDM17	HSSDM17R	1996	46 - 210	4171		
HSWBF04	HSWBF04R	1997	36 - 302	4172	Ser-1 to Thr-8.	

HSWBP42	HSWBP42R	1998	188 - 364	4173	Glu-17 to Ala-32, Arg-39 to Trp-47.			
					Met-9 to Arg-14, Leu-23 to Lys-29, Lys-50 to Asn-56.			
HSXEM65	HSXEM65R	1999	84 - 308	4174	Ser-7 to Gly-12, Pro-23 to Pro-40, Ala-49 to Val-54.	L0803: 10, L0794: 4, L0779: 4, L0789: 2, H0648: 2, S0442: 1, S0045: 1, S0036: 1, L0520: 1, L0763: 1, L0769: 1, L0800: 1, L0644: 1, L0764: 1, L0773: 1, L0767: 1, L0804: 1, L0774: 1, L0805: 1, L0517: 1, H0659: 1, L0777: 1 and L0758: 1.		
HTGAR42	HTGAR42R	2000	136 - 297	4175	Ser-4 to Thr-10, Leu-42 to Pro-51.	H0615: 2 and S0134: 1.		
HTLCU84	HTLCU84R	2001	131 - 406	4176	Asp-55 to Val-63, Cys-80 to Arg-92.			
HTSHG06	HTSHG06R	2002	107 - 295	4177				
HTTDP76	HTTDP76R	2003	169 - 423	4178	Pro-8 to Trp-14, Arg-20 to Ser-27, Glu-52 to Glu-60.			
HUFCQ37	HUFCQ37R	2004	94 - 366	4179	Pro-26 to Gly-39, Pro-68 to Arg-75.	L0439: 15, H0052: 11, S0007: 9, L0438: 6, L0731: 6, L0779: 5, L0754: 4, H0550: 3, L0769: 3, S0126: 3,		

	L0743: 3, H0194: 2, H0687: 2, H0623: 2, L0768: 2, L0776: 2, L0659: 2, L0666: 2, L0663: 2, H0689: 2, S0330: 2, L0748: 2, L0786: 2, L0777: 2, L0752: 2, L0758: 2, L0608: 2, H0352: 2, H0662: 1, S0356: 1, S0354: 1, S0444: 1, S0045: 1, S0476: 1, H0441: 1, H0431: 1, H0333: 1, H0642: 1, H0575: 1, H0590: 1, T0048: 1, H0150: 1, H0024: 1, S0050: 1, S0388: 1, H0252: 1, H0039: 1, H0135: 1, H0038: 1, H0264: 1, H0494: 1, L0770: 1, L0372: 1, L0646: 1, L0521: 1, L0794: 1, L0803: 1, L0775: 1, L0653: 1, L0657: 1, L0809: 1, L0792: 1, L0664: 1, H0144: 1, L0352: 1, H0519: 1, H0593: 1, H0658: 1, H0672: 1, H0539: 1,
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									S0406: 1, L0751: 1, L0749: 1, L0756: 1, L0753: 1 and H0506: 1.			
HULAP70	HULAP70R	2005	2 - 349	4180	Arg-8 to Arg-28.							
HUSGA11	HUSGA11R	2006	19 - 390	4181	Arg-11 to Arg-18, Ser-42 to Arg-52, Met-62 to Pro-73, Pro-102 to Gly-115.							
HUSIL88	HUSIL88R	2007	187 - 288	4182								
HUUCH08	HUUCH08R A	2008	351 - 620	4183								
HUVFA39	HUVFA39R	2009	1 - 462	4184	Arg-2 to Gly-12, Arg-28 to Gly-41, Gly-48 to Val-68, Lys-94 to Arg-118.							
HVCAA31	HVCAA31R	2010	94 - 618	4185	Met-4 to Thr-22, Asp-45 to Gly-50, Gly-65 to Asp-70, Lys-96 to Asp-104, Ile-121 to Leu-126, Met-133 to Glu-144, Ala-149 to Asn-156.							
HVCAA37	HVCAA37R	2011	208 - 717	4186	Ile-36 to Glu-41, Glu-55 to Lys-63, Lys-68 to Gln-81, Pro-84 to Lys-90, Pro-108 to Ser-119.							
HVCAA68	HVCAA68R	2012	2 - 373	4187	Pro-22 to Pro-28, Glu-109 to Arg-118.							

HVCAA94	HVCAA94R	2013	1 - 462	4188				H0666: 696, H0660: I1, L0666: 7, H0617: 4, L0664: 4, H0549: 3, H0620: 3, H0181: 3, H0593: 3, H0684: 3, H0484: 2, H0619: 2, H0051: 2, H0606: 2, H0670: 2, L0748: 2, L0439: 2, S0040: 1, H0483: 1, H0255: 1, H0662: 1, S0007: 1, H0486: 1, H0052: 1, H0597: 1, H0046: 1, H0009: 1, H0012: 1, H0059: 1, T0041: 1, H0517: 1, L0770: 1, L0764: 1, L0803: 1, L0783: 1, L0809: 1, H0435: 1, H0658: 1, H0539: 1, H0521: 1, H0696: 1 and S0434: 1.			
HVCAB02	HVCAB02R	2014	2 - 649	4189							
HVCAB03	HVCAB03R	2015	353 - 664	4190	Arg-1 to Gln-18, Asp-52 to Leu-57, Asp-67 to Lys-74, Asp-85 to Ala-92.						
HVCAB18	HVCAB18R	2016	3 - 758	4191							
HVCAB44	HVCAB44R	2017	3 - 224	4192				L0769: 7, L0747: 7, L0777: 7, L0752: 7, L0665: 6, L0770: 5.			

	L0766: 5, L0779: 5, L0771: 4, L0666: 4, L0439: 4, L0751: 4, H0052: 3, H0135: 3, L0762: 3, L0775: 3, L0806: 3, L0809: 3, L0647: 3, S0404: 3, L0743: 3, L0749: 3, L0731: 3, S0360: 2, H0083: 2, H0412: 2, L0761: 2, L0764: 2, L0662: 2, L0653: 2, L0783: 2, L0532: 2, L0664: 2, L0748: 2, L0750: 2, L0758: 2, L0759: 2, H0543: 2, H0265: 1, S0218: 1, H0657: 1, H0254: 1, H0661: 1, H0402: 1, S0354: 1, S0046: 1, H0619: 1, S6026: 1, L0717: 1, H0409: 1, H0587: 1, H0486: 1, H0013: 1, H0069: 1, H0156: 1, H0599: 1, L0022: 1, H0575: 1, H0597: 1, H0544: 1, H0546: 1, H0150: 1, H0057: 1, H0014: 1, S0003: 1, H0252: 1.
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									H0615: 1, H0030: 1, H0644: 1, H0617: 1, S0364: 1, H0316: 1, H0598: 1, S0036: 1, H0063: 1, H0646: 1, S0426: 1, L0369: 1, L0772: 1, L0773: 1, L0767: 1, L0774: 1, L0375: 1, L0378: 1, L0655: 1, L0656: 1, L0790: 1, L0663: 1, H0520: 1, H0689: 1, H0670: 1, H0660: 1, H0666: 1, S0152: 1, H0521: 1, H0436: 1, S0206: 1, L0744: 1, L0786: 1, L0755: 1, L0587: 1, L0362: 1, H0422: 1, S0456: 1 and L0600: 1.			
HVCAB52	HVCAB52R	2018	4 - 612	4193								
HVCAB57	HVCAB57R	2019	1 - 357	4194								
HVCAB88	HVCAB88R	2020	83 - 739	4195	Lys-6 to Thr-11, Gly-22 to Phe-30, Leu-40 to Gly-53, Arg-56 to Lys-64, Lys-93 to Leu-101, Met-176 to Leu-181.							
HVCAC42	HVCAC42R	2021	319 - 417	4196	Arg-7 to Asp-13.							
HVCAD52	HVCAD52R	2022	1 - 369	4197								

HVCAE01	HVCAE01R	2023	49 - 663	4198	Tyr-44 to Asp-49, Pro-132 to Leu-139, Cys-168 to His-174.			
HVCAE15	HVCAE15R	2024	3 - 605	4199	Pro-49 to Val-58, Gln-60 to Gln-78, Arg-85 to His-99, Phe-122 to Asp-128, Arg-157 to Arg-163, Leu-178 to Thr-193.			
HVCAE22	HVCAE22R	2025	2 - 493	4200	Gly-19 to Ala-24, Asn-32 to Val-38.	S0358: 7, H0659: 7, H0542: 7, H0543: 6, L0666: 5, L0747: 5, S0418: 4, H0494: 4, L0657: 4, L0517: 4, S0374: 4, L0731: 4, L0596: 4, H0341: 3, H0385: 3, S0346: 3, H0553: 3, S0144: 3, S0210: 3, L0764: 3, L0659: 3, L0663: 3, L0664: 3, H0521: 3, L0754: 3, L0779: 3, L0752: 3, L0755: 3, H0445: 3, H0422: 3, T0049: 2, S0116: 2, S0212: 2, S0282: 2, S0376: 2, S0360: 2, S0045: 2, H0486: 2, H0250: 2, H0427: 2, H0581: 2, H0251: 2,		

	H0545: 2, H0083: 2, H0510: 2, H0412: 2, S0422: 2, L0769: 2, L0637: 2, L0646: 2, L0651: 2, H0144: 2, H0519: 2, H0660: 2, S0380: 2, L0740: 2, L0608: 2, L0603: 2, H0668: 2, H0667: 2, S0412: 2, H0265: 1, T0002: 1, S0402: 1, S6024: 1, H0657: 1, H0656: 1, H0663: 1, H0638: 1, H0580: 1, H0208: 1, S0046: 1, L0717: 1, S0278: 1, H0370: 1, H0586: 1, H0497: 1, H0574: 1, T0109: 1, H0156: 1, H0575: 1, H0590: 1, H0318: 1, S0049: 1, H0544: 1, H0572: 1, H0123: 1, L0471: 1, H0024: 1, H0373: 1, L0163: 1, S0388: 1, H0355: 1, H0375: 1, S6028: 1, H0267: 1, H0687: 1, S0312: 1, S0250: 1, S0003: 1, H0316: 1, H0598: 1,				
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HVCAE56	HVCAE56R	2026	75 - 572	4201	Asn-20 to Gln-27.	H0163: 1, H0551: 1, H0623: 1, H0059: 1, T0042: 1, H0625: 1, H0561: 1, H0509: 1, S0150: 1, H0633: 1, H0646: 1, S0426: 1, L0598: 1, H0529: 1, H0517: 1, L0761: 1, L0521: 1, L0662: 1, L0766: 1, L0775: 1, L0653: 1, L0655: 1, L0783: 1, L0382: 1, L0809: 1, L0519: 1, L0529: 1, L0792: 1, L0665: 1, H0547: 1, H0593: 1, S0126: 1, H0689: 1, H0435: 1, H0666: 1, S0328: 1, H0518: 1, H0522: 1, H0436: 1, S0037: 1, S0027: 1, S0032: 1, L0439: 1, L0756: 1, S0031: 1, L0588: 1, L0595: 1, S0026: 1 and H0136: 1.
HVCAG56	HVCAG56R	2027	3 - 551	4202	Arg-92 to Arg-101, Lys-134 to Asn-140, Ser-149 to Thr-159, Gly-166 to Ile-175.	

HVCAG86	HVCAG86R	2028	150 - 509	4203	Arg-6 to Pro-21.	H0620: 16, L0747: 12, H0599: 11, L0758: 9, S0358: 8, L0751: 7, L0754: 7, L0596: 7, H0556: 6, H0393: 5, H0706: 5, H0052: 5, H0616: 5, H0529: 5, L0774: 5, L0776: 5, H0483: 4, S0442: 4, H0253: 4, H0012: 4, H0083: 4, S0150: 4, L0662: 4, H0670: 4, H0521: 4, L0748: 4, L0581: 4, H0543: 4, H0341: 3, S0376: 3, H0580: 3, S0007: 3, S0280: 3, H0036: 3, H0618: 3, H0581: 3, H0309: 3, H0510: 3, H0428: 3, H0040: 3, H0087: 3, L0764: 3, L0775: 3, L0655: 3, L0666: 3, L0663: 3, L0664: 3, H0547: 3, L0749: 3, L0750: 3, L0595: 3, H0657: 2, H0656: 2, S0116: 2, H0638: 2, S0356: 2, S0360: 2, S0046: 2,
HVCAH03	HVCAH03R	2029	3 - 689	4204		

	H0411: 2, H0550: 2, S6014: 2, H0370: 2, H0574: 2, L0622: 2, L0623: 2, H0042: 2, S0182: 2, H0318: 2, H0085: 2, H0373: 2, H0275: 2, H0188: 2, H0030: 2, H0169: 2, H0124: 2, H0135: 2, H0038: 2, H0100: 2, T0042: 2, H0494: 2, H0625: 2, H0509: 2, H0132: 2, H0130: 2, H0538: 2, L0800: 2, L0768: 2, L0381: 2, L0784: 2, L0378: 2, L0653: 2, L0659: 2, L0809: 2, H0651: 2, H0696: 2, H0134: 2, S3014: 2, S0027: 2, L0743: 2, L0744: 2, L0740: 2, L0731: 2, S0031: 2, L0604: 2, H0423: 2, H0352: 2, H0265: 1, T0002: 1, S0134: 1, H0583: 1, H0484: 1, H0661: 1, L0005: 1, S0408: 1, S0045: 1, H0619: 1, H0645: 1, H0351: 1,	
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HVCAH17	HVCAH17R	2030	1 - 498	4205				H0647: 1, S0144: 1, S0142: 1, S0344: 1, H0695: 1, L0369: 1, L0762: 1, L0763: 1, L0371: 1, L0770: 1, L0769: 1, L0638: 1, L0796: 1, L0772: 1, L0373: 1, L0646: 1, L0374: 1, L0771: 1, L0773: 1, L0648: 1, L0766: 1, L0386: 1, L0375: 1, L0806: 1, L0382: 1, L0665: 1, H0144: 1, S0374: 1, H0693: 1, L0438: 1, H0520: 1, H0593: 1, H0689: 1, H0690: 1, H0658: 1, H0666: 1, H0648: 1, H0672: 1, H0539: 1, H0522: 1, H0555: 1, S0028: 1, S0032: 1, L0752: 1, L0755: 1, H0445: 1, S0434: 1, L0599: 1, S0011: 1, H0667: 1, H0136: 1, S0192: 1, H0542: 1, S0424: 1, H0506: 1 and H0008: 1.		
HVCAH56	HVCAH56R	2031	3 - 527	4206						



HVCAI08	HVCAI08R	2032	67 - 453	4207	Pro-6 to Arg-13, Met-34 to Asp-41, Lys-65 to Thr-74.	L0748: 28, L0754: 27, L0740: 15, H0056: 13, L0750: 13, S0007: 12, L0757: 12, S0126: 11, S0222: 10, L0731: 10, S0360: 9, H0144: 9, S0358: 8, H0009: 8, L0005: 7, S0010: 7, H0266: 7, L0742: 7, L0752: 7, H0547: 6, S0408: 5, S0046: 5, L0471: 5, S0003: 5, S0028: 5, L0758: 5, L0362: 5, S0026: 5, H0294: 4, H0341: 4, H0638: 4, S0045: 4, H0327: 4, H0039: 4, H0031: 4, H0413: 4, S0210: 4, L0769: 4, L0662: 4, L0775: 4, L0776: 4, L0809: 4, H0689: 4, S0014: 4, S0206: 4, L0747: 4, H0445: 4, L0608: 4, H0661: 3, S0376: 3, S0278: 3, H0369: 3, H0441: 3, H0575: 3, S0049: 3, S0388: 3, S0036: 3, H0616: 3, H0100: 3, H0494: 3,		
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	S0440: 3, L0520: 3, L0764: 3, S0374: 3, H0682: 3, H0659: 3, H0672: 3, S0027: 3, L0439: 3, S0192: 3, H0624: 2, H0170: 2, T0002: 2, H0716: 2, S0282: 2, H0305: 2, S0420: 2, L0103: 2, H0592: 2, H0586: 2, T0039: 2, T0109: 2, H0013: 2, S0346: 2, T0048: 2, H0318: 2, S0474: 2, H0251: 2, H0597: 2, H0150: 2, H0178: 2, H0569: 2, H0081: 2, H0024: 2, S0051: 2, H0615: 2, H0428: 2, H0644: 2, H0708: 2, H0090: 2, H0412: 2, H0059: 2, H0633: 2, S0142: 2, S0422: 2, L0772: 2, L0646: 2, L0768: 2, L0806: 2, L0782: 2, H0684: 2, S0328: 2, S0378: 2, S0380: 2, H0522: 2, H0134: 2, S0406: 2, S0312: 2, L0751: 2, L0755: 2	
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	H0617: 1, L0055: 1, H0166: 1, H0135: 1, H0163: 1, H0591: 1, H0038: 1, S0112: 1, L0564: 1, T0041: 1, T0042: 1, S0014: 1, S0438: 1, H0509: 1, H0641: 1, H0529: 1, L0762: 1, L4747: 1, L0372: 1, L0553: 1, L0771: 1, L0773: 1, L0521: 1, L0767: 1, L0766: 1, L5569: 1, L5574: 1, L0381: 1, L0650: 1, L0774: 1, L0376: 1, L0653: 1, L0527: 1, L0657: 1, L0518: 1, L0783: 1, L0545: 1, L0532: 1, L0666: 1, L0663: 1, S0216: 1, H0520: 1, H0593: 1, H0711: 1, H0690: 1, H0670: 1, H0660: 1, H0666: 1, H0539: 1, S0152: 1, S0332: 1, H0521: 1, H0704: 1, S0044: 1, S0146: 1, S0404: 1, L0749: 1, S0260: 1, H0444: 1, S0434: 1,	
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							L0596: 1, L0588: 1, L0599: 1, L0366: 1, S0011: 1, H0668: 1, H0216: 1, S0242: 1, S0196: 1, H0542: 1, H0543: 1, L0697: 1, L0698: 1, S0398: 1, S0424: 1, S3020: 1 and S0460: 1.			
HVCAI24	HVCAI24R	2033	108 - 365	4208	Asn-1 to Lys-6.					
HVCAI79	HVCAI79R	2034	2 - 508	4209						
HVCAI27	HVCAI27R	2035	1 - 537	4210			S0408: 5, L0809: 5, L0800: 4, L0804: 4, H0647: 3, L0803: 3, L0775: 3, L0805: 3, S0126: 3, L0751: 3, S0360: 2, S0278: 2, H0409: 2, H0424: 2, H0617: 2, H0494: 2, L0783: 2, H0670: 2, L0747: 2, L0777: 2, L0731: 2, L0601: 2, H0556: 1, H0295: 1, S0116: 1, H0341: 1, S0442: 1, S0358: 1, S0376: 1, H0370: 1, H0042: 1, H0575: 1, S0049: 1, H0150: 1, H0163: 1, S0294: 1, S0438: 1, H0633: 1,			

HVCAJ81	HVCAJ81R	2036	1 - 477	4211	Lys-61 to Gln-73, Gln-81 to Ser-97.	H0529: 1, L0769: 1, L0374: 1, L0764: 1, L0560: 1, L0774: 1, L0376: 1, L0629: 1, L0807: 1, L0657: 1, L0659: 1, L0791: 1, L0666: 1, H0682: 1, H0683: 1, H0658: 1, H0666: 1, S0328: 1, H0539: 1, H0555: 1, H0436: 1, S012: 1, L0779: 1, L0752: 1, L0757: 1, L0758: 1, L0759: 1, H0667: 1 and H0423: 1.		
HVCAJ95	HVCAJ95R	2037	1 - 210	4212	Arg-14 to Gly-41, Arg-47 to Glu-53, Gln-56 to Lys-70.			
HVCAK02	HVCAK02R	2038	3 - 467	4213	Glu-1 to Lys-9.			
HVCAL06	HVCAL06R	2039	3 - 383	4214				
HVCAO17	HVCAO17R	2040	1 - 516	4215		H0009: 3, H0135: 3, H0494: 3, H0265: 2, H0341: 2, H0484: 2, S0046: 2, S0222: 2, H0266: 2, S0144: 2, H0658: 2, L0742: 2, H0542: 2, H0423: 2, H0171: 1, T0002: 1,		

1418

[illegible]



1420

1421



HVCAU64	HVCAU64R	2049	3 - 404	4224	Arg-7 to Val-15.	H0668: 1, S0276: 1 and H0422: 1.		
HVCBD18	HVCBD18R	2050	190 - 309	4225	Val-3 to Lys-9, Leu-32 to Gln-40.			
HVCBE76	HVCBE76R	2051	3 - 431	4226				
HVCBE79	HVCBE79R	2052	3 - 524	4227				
HVCBF38	HVCBF38R	2053	3 - 251	4228				
HVCBF89	HVCBF89R	2054	2 - 361	4229		AR039: 419, AR096: 339, AR053: 225, AR052: 212, AR104: 168, AR089: 168, AR060: 114, AR033: 108, AR055: 99, AR061: 74		
HVCBG01	HVCBG01R	2055	22 - 318	4230	Lys-7 to Thr-13, Asp-24 to Thr-30, Gly-39 to Glu-52.			
HVCBQ31	HVCBQ31R	2056	2 - 448	4231				
HVCCA08	HVCCA08R	2057	2 - 298	4232				
HVCCR34	HVCCR34R	2058	34 - 699	4233				
HVCCR91	HVCCR91R	2059	1 - 156	4234				
HVCCV93	HVCCV93R	2060	203 - 469	4235	Ser-25 to Asn-31, Asp-38 to Val-48, Ser-57 to Gly-63.			
HVCDA75	HVCDA75R	2061	1 - 315	4236				
HVCDD19	HVCDD19R	2062	31 - 459	4237	Pro-1 to Ser-7, Val-22 to Asn-29,			

HVCD F50	HVCD F50R	2063	3 - 353	4238	Pro-45 to Pro-51, Arg-59 to Val-64, Val-92 to Lys-98.			
HVCD H77	HVCD H77R	2064	2 - 679	4239	Ser-56 to Phe-69, Arg-113 to Thr-123, Leu-128 to Ser-135, Lys-148 to Ala-156, Gly-166 to Ser-171, Glu-188 to Leu-194, Ala-211 to Gly-222.	H0666: 8, S0144: 6, L0747: 5, H0545: 4, L0769: 4, L0766: 4, L0731: 4, H0341: 3, L0764: 3, L0794: 3, L0750: 3, L0755: 3, L0758: 3, S0045: 2, H0257: 2, H0581: 2, H0546: 2, H0135: 2, L0803: 2, L0657: 2, L0789: 2, L0666: 2, S0044: 2, H0445: 2, L0588: 2, L0594: 2, L0601: 2, H0543: 2, S0040: 1, H0295: 1, H0583: 1, S0116: 1, S0212: 1, H0661: 1, H0664: 1, S0418: 1, S0356: 1, S0358: 1, S0360: 1, S0007: 1, S0046: 1, S0132: 1, S0278: 1, H0592: 1, H0586: 1, H0559: 1, H0575: 1, S0182: 1, H0620: 1, S0388: 1, H0083: 1, S0312: 1.		

HVVAB25	HVVAB25R	2065	3 - 155	4240				H0617: 1, H0169: 1, H0708: 1, H0163: 1, H0551: 1, H0488: 1, T0069: 1, H0102: 1, H0100: 1, H0494: 1, L0475: 1, H0646: 1, S0142: 1, S0002: 1, L0762: 1, L0796: 1, L0646: 1, L0800: 1, L0645: 1, L0771: 1, L0662: 1, L0768: 1, L0386: 1, L0651: 1, L0783: 1, L0790: 1, L0791: 1, L0663: 1, H0144: 1, L0438: 1, H0519: 1, H0134: 1, S3014: 1, L0740: 1, L0779: 1, L0757: 1, S0031: 1, L0592: 1, H0665: 1, S0276: 1 and H0422: 1.
HVVAB37	HVVAB37R	2066	74 - 619	4241				
HVVAC18	HVVAC18R	2067	56 - 238	4242				
HVVAD74	HVVAD74R	2068	403 - 570	4243				L0766: 12, S0412: 8, S0422: 4, L0756: 4, H0341: 3, H0638: 3, L0770: 3, L0666: 3, L0777: 3, S0360: 2, H0318: 2, H0327: 2.

	L0803: 2, H0670: 2, L0740: 2, L0731: 2, S0260: 2, S0436: 2, H0170: 1, H0125: 1, S0418: 1, S0444: 1, H0489: 1, H0580: 1, H0734: 1, S0222: 1, H0587: 1, H0497: 1, H0013: 1, H0075: 1, H0427: 1, H0046: 1, H0354: 1, L0142: 1, L0055: 1, H0090: 1, H0412: 1, S0440: 1, H0647: 1, H0529: 1, L0369: 1, L0371: 1, L0772: 1, L0646: 1, L0771: 1, L0649: 1, L0381: 1, L0650: 1, L0774: 1, L0653: 1, L0655: 1, L0606: 1, L0790: 1, L0532: 1, L0663: 1, L0664: 1, S0374: 1, H0593: 1, H0711: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, L0779: 1, L0755: 1, L0758: 1, L0759: 1, L0593: 1, S0242: 1, H0423: 1 and H0721: 1				
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HVVAE73	HVVAE73R	2069	96 - 347	4244	Glu-21 to Ile-26.				
HVVAE88	HVVAE88R	2070	157 - 381	4245	Ser-1 to Asp-9, Lys-26 to Gln-36.			H0672: 2, L0748: 2, H0156: 1 and H0494: 1.	
HVVAH91	HVVAH91R	2071	3 - 245	4246				L0747: 5, L0731: 4, L0742: 3, L0745: 3, L0769: 2, L0766: 2, L0774: 2, L0597: 2, L0604: 2, T0049: 1, S0358: 1, H0549: 1, H0486: 1, T0040: 1, S0280: 1, H0318: 1, H0263: 1, H0551: 1, H0633: 1, H0529: 1, L0640: 1, L0763: 1, L0771: 1, L0768: 1, L0388: 1, L0657: 1, L0659: 1, L0517: 1, L0666: 1, L0663: 1, H0648: 1, H0672: 1, H0521: 1, L0749: 1, L0750: 1, L0779: 1, L0780: 1 and L0592: 1.	
HVVAI03	HVVAI03R	2072	2 - 307	4247					
HVVAJ23	HVVAJ23R	2073	3 - 527	4248	Gln-33 to Ala-38, Thr-47 to Asn-64, Pro-117 to Leu-122, Thr-160 to Gly-171.				
HVVAJ28	HVVAJ28R	2074	1 - 327	4249	His-1 to Trp-6, Gly-28 to Asp-34, Arg-41 to Ala-53,				



HVV/AJ47	HVV/AJ47R	2075	159 - 443	4250	Arg-69 to Thr-76, Leu-97 to Glu-103.	L0659: 55, H0644: 23, L0748: 18, L0666: 17, L0747: 17, H0622: 16, S0194: 16, H0553: 15, L0662: 15, S0126: 15, L0740: 15, L0754: 14, H0031: 13, H0593: 12, L0649: 11, H0435: 11, L0757: 11, H0124: 10, S0250: 9, S0356: 8, H0672: 7, L0362: 7, L0779: 6, S0210: 5, L0771: 5, L0663: 5, L0664: 5, H0547: 5, L0750: 5, L0601: 5, S0360: 4, H0619: 4, L0764: 4, L0804: 4, L0775: 4, S0358: 3, H0486: 3, H0628: 3, H0264: 3, L0451: 3, L0776: 3, L0655: 3, L0783: 3, H0693: 3, H0660: 3, S0454: 3, L0749: 3, L0605: 3, S0192: 3, H0170: 2, H0294: 2, S0180: 2, H0586: 2, H0013: 2, H0687: 2, H0428: 2.		
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	L0483: 2, H0488: 2, S0450: 2, H0647: 2, S0208: 2, L0648: 2, L0523: 2, L0809: 2, L0665: 2, H0144: 2, L0565: 2, H0690: 2, H0518: 2, H0696: 2, S3012: 2, L0752: 2, L0755: 2, L0731: 2, H0665: 2, H0171: 1, H0656: 1, S0212: 1, S0376: 1, S0410: 1, S0132: 1, H0393: 1, L0717: 1, H0392: 1, H0331: 1, H0485: 1, T0040: 1, T0060: 1, L0021: 1, H0599: 1, T0082: 1, H0618: 1, H0052: 1, H0085: 1, T0110: 1, H0046: 1, H0050: 1, L0471: 1, H0355: 1, S0003: 1, H0615: 1, H0039: 1, L0143: 1, H0111: 1, L0455: 1, S0366: 1, H0135: 1, H0040: 1, H0551: 1, H0100: 1, L0564: 1, H0509: 1, H0517: 1, L0763: 1, L0769: 1, L0772: 1,	
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									L0646: 1, L0768: 1, L0375: 1, L0784: 1, L0806: 1, L0805: 1, L0653: 1, L0654: 1, L0517: 1, L0384: 1, L0383: 1, L0647: 1, L0789: 1, L0791: 1, L0438: 1, H0520: 1, H0689: 1, H0682: 1, H0684: 1, S0152: 1, H0704: 1, H0555: 1, S0432: 1, S3014: 1, S0027: 1, S0028: 1, L0744: 1, L0758: 1, H0595: 1, H0707: 1, S0436: 1, L0591: 1, L0599: 1, S0196: 1, H0422: 1, S0384: 1 and L0600: 1.			
HVVAK42	HVVAK42R	2076	121 - 312	4251								
HVVAK46	HVVAK46R	2077	3 - 782	4252	Lys-1 to Lys-14, Phe-21 to Trp-26, Val-87 to Cys-92, Thr-139 to Gln-153, Gln-156 to Lys-162, Glu-171 to Leu-177.							
HVVAK68	HVVAK68R	2078	372 - 584	4253					L0747: 22, L0599: 11, L0766: 9, L0748: 9, L0483: 8, L0740: 7, L0665: 5, L0754: 5			



HVVAK85	HVVAK85R	2079	2 - 373	4254				H0014: 1, S0051: 1, H0071: 1, H0083: 1, H0687: 1, S0003: 1, S0214: 1, H0688: 1, H0031: 1, H0163: 1, H0038: 1, H0040: 1, H0616: 1, H0063: 1, H0059: 1, T0069: 1, L0475: 1, S0015: 1, H0633: 1, H0538: 1, L0769: 1, L0796: 1, L0637: 1, L0373: 1, L0521: 1, L0375: 1, L0806: 1, L0661: 1, L0527: 1, L0656: 1, L0809: 1, L0647: 1, L0664: 1, H0519: 1, H0682: 1, H0435: 1, H0659: 1, H0670: 1, H0672: 1, S0330: 1, H0521: 1, H0696: 1, H0134: 1, H0214: 1, H0555: 1, L0746: 1, L0750: 1, L0752: 1, L0759: 1, H0343: 1, L0589: 1, L0590: 1, S0194: 1, H0543: 1, S0452: 1 and H0506: 1.		
HVVAK81	HVVAK81R	2080	97 - 408	4255	Gly-72 to Asp-81.	AR089: 67, AR104: 8,				

AR096: 5, AR060: 4, AR055: 4, AR061: 3 H0169: 21, H0674: 19, L0754: 19, H0309: 15, T0060: 7, H0038: 7, H0509: 7, S0044: 7, S0358: 6, H0124: 6, H0163: 6, H0672: 6, L0731: 6, L0750: 5, L0603: 5, H0032: 4, H0616: 4, S0330: 4, L0749: 4, L0755: 4, H0597: 3, S0318: 3, H0622: 3, L0540: 3, S0328: 3, S0406: 3, L0758: 3, S0444: 2, H0486: 2, H0122: 2, H0355: 2, S0316: 2, L0770: 2, L0646: 2, L0771: 2, L0662: 2, L0364: 2, L0803: 2, L0783: 2, H0696: 2, L0743: 2, L0747: 2, L0581: 2, H0506: 2, S0356: 1, S0376: 1, H0675: 1, H0643: 1, H0706: 1, H0253: 1, H0085: 1, H0204: 1, H0510: 1, S0314: 1, H0553: 1, H0673: 1,							
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							S0366: 1, H0380: 1, T0004: 1, S0438: 1, L0372: 1, L0773: 1, L0767: 1, L0806: 1, L0542: 1, L0809: 1, L0519: 1, L0529: 1, H0691: 1, S0148: 1, H0660: 1, S0004: 1, S0146: 1, L0780: 1, S0194: 1 and S0276: 1.			
HVVP65	HVVP65RP	2081	124 - 354	4256	Arg-1 to Cys-10, Asn-29 to Phe-38.					
	00B									
HVVP27	HVVP27RP	2082	3 - 413	4257						
	00B									
HVPAW26	HVPAW26R	2083	1 - 324	4258	Lys-62 to Tyr-73.					
HVVPD91	HVVPD91RP	2084	2 - 436	4259						
	00B									
HVVPF09	HVVPF09R	2085	3 - 236	4260	Leu-36 to Ser-43, Gly-68 to Phe-73.					
HVVPF66	HVVPF66R	2086	7 - 171	4261	Lys-17 to Tyr-22.					
							H0672: 2, S0007: 1, L0717: 1, H0545: 1, L0764: 1, L0649: 1, L0659: 1, L0809: 1, L0438: 1, H0555: 1, L0748: 1, L0754: 1 and L0752: 1.			
HVVBH88	HVVBH88R	2087	1 - 189	4262						
							L0659: 14, L0740: 11, H0052: 8, L0662: 8, L0666: 8, H0059: 7, H0265: 6, H0040: 6,			

L0596: 6, S0356: 5, S0358: 5, H0539: 5, L0751: 5, L0750: 5, H0431: 4, L0759: 4, H0442: 3, H0575: 3, H0051: 3, T0010: 3, H0428: 3, H0031: 3, H0135: 3, H0433: 3, H0412: 3, H0509: 3, L0637: 3, L0372: 3, L0521: 3, L0806: 3, L0519: 3, L0663: 3, L0664: 3, L0665: 3, S0378: 3, L0591: 3, L0593: 3, H0483: 2, S0360: 2, H0587: 2, H0013: 2, H0036: 2, S0010: 2, S0049: 2, H0194: 2, T0110: 2, H0046: 2, H0123: 2, H0024: 2, H0083: 2, H0179: 2, T0006: 2, H0038: 2, H0538: 2, S0002: 2, L0769: 2, L0796: 2, L0646: 2, L0374: 2, L0648: 2, L0776: 2, H0520: 2, H0519: 2, H0689: 2, H0555: 2, S0028: 2, L0439: 2, L0752: 2.					
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HVVB116	HVVB116R	2088	2 - 592	4263										
HVVB108	HVVB108R	2089	150 - 578	4264	Gln-5 to Pro-13, Pro-25 to Lys-32, Asp-62 to Ser-72, Gln-78 to Ser-85, Pro-91 to Glu-105.									
HVVB155	HVVB155RP 00B	2090	3 - 413	4265										
HVVBK13	HVVBK13R	2091	1 - 633	4266										

HVVBO65	HVVBO65R	2092	3 - 644	4267	Pro-62 to Pro-73, Thr-80 to Ser-92, Gln-108 to Tyr-116.			
HVVBO88	HVVBO88R	2093	50 - 433	4268				
HVVBR70	HVVBR70RP 00B	2094	2 - 406	4269				
HVVBT33	HVVBT33R	2095	116 - 316	4270	Asn-15 to Leu-27, Lys-48 to Val-53.			
HVVBT60	HVVBT60R	2096	454 - 2	4271				
HVVBY87	HVVBY87R	2097	3 - 161	4272				
HVVCB04	HVVCB04R	2098	2 - 580	4273	Pro-1 to Phe-9, Ser-111 to Asn-117, Ser-159 to Pro-167.			
HVVCB08	HVVCB08R	2099	1 - 792	4274	Ser-56 to Tyr-62, Gln-67 to Pro-74, Thr-83 to Gly-94, Gln-120 to Gln-130, Pro-150 to Ser-157.			
HVVCC06	HVVCC06R	2100	299 - 427	4275				
HVVCD65	HVVCD65R	2101	224 - 481	4276	Lys-40 to Gly-47.			
HVVCD81	HVVCD81R	2102	2 - 640	4277				
HVVCD87	HVVCD87R	2103	447 - 695	4278		L0439: 23, L0438: 20, H0556: 10, L0665: 10, S0358: 9, L0731: 8, H0423: 8, H0069: 7, H0622: 7, L0666: 7, L0748: 7, L0747: 7, H0486: 6, H0090: 6, L0664: 6, H0519: 6,		

	H0539: 6, L0749: 6, L0596: 6, S0222: 5, H0457: 5, H0435: 5, L0756: 5, L0758: 5, L0601: 5, H0013: 4, H0046: 4, H0150: 4, H0266: 4, H0038: 4, L0771: 4, L0662: 4, L0659: 4, L0663: 4, H0670: 4, H0672: 4, H0521: 4, S0404: 4, L0745: 4, H0265: 3, S0114: 3, H0650: 3, H0662: 3, S0360: 3, S0045: 3, H0333: 3, H0156: 3, H0318: 3, H0050: 3, H0620: 3, T0010: 3, H0375: 3, H0428: 3, H0039: 3, H0591: 3, H0040: 3, H0063: 3, H0412: 3, H0100: 3, H0529: 3, L0770: 3, L0775: 3, L0809: 3, H0547: 3, S0126: 3, H0436: 3, L0741: 3, L0752: 3, S0026: 3, H0624: 2, H0713: 2, H0583: 2, S0116: 2, H0663: 2, H0305: 2, H0638: 2	
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HVCG93	HVCG93R	2111	1 - 405	4286	Arg-48 to Asn-57, Lys-77 to Glu-83, Phe-106 to Asp-112, 13	AR089: 107, AR096: 52, AR104: 30, AR060: 27, AR061: 14, AR055: 13		
HVCH28	HVCH28R	2112	3 - 350	4287	Glu-81 to Gly-91, Arg-107 to Asn-116.			
HVCI28	HVCI28R	2113	3 - 119	4288	Asp-10 to Lys-15, Lys-29 to Asp-34.			
HVCI50	HVCI50R	2114	44 - 460	4289				
HVCI85	HVCI85R	2115	3 - 647	4290	Asp-1 to Thr-14, Ala-76 to Thr-88, Asp-101 to Lys-115, Ala-128 to Gln-136, Pro-141 to Gln-151.			
HVCI51	HVCI51R	2116	1 - 351	4291		H0585: 4, H0457: 4, L0809: 4, L0747: 4, S0442: 3, H0492: 3, H0427: 3, H0318: 3, L0666: 3, H0690: 3, H0686: 2, H0662: 2, S0358: 2, S0408: 2, H0150: 2, H0135: 2, H0063: 2, H0494: 2, L0761: 2, L0764: 2, L0773: 2, L0662: 2, L0378: 2, L0665: 2, H0670: 2, S0406: 2, L0744: 2, L0749: 2, L0601: 2, H0170: 1,		



	H0685: 1, H0661: 1, H0402: 1, S0348: 1, S0354: 1, S0376: 1, S0360: 1, S0278: 1, H0586: 1, H0333: 1, H0642: 1, L0622: 1, S0280: 1, H0599: 1, H0253: 1, H0231: 1, H0545: 1, H0373: 1, H0266: 1, H0553: 1, S0036: 1, H0551: 1, H0116: 1, H0264: 1, H0059: 1, S0352: 1, S0440: 1, H0646: 1, L0640: 1, L0639: 1, L0630: 1, L0772: 1, L0373: 1, L0646: 1, L0800: 1, L0641: 1, L0374: 1, L0644: 1, L0645: 1, L0794: 1, L0766: 1, L0774: 1, L0775: 1, L0659: 1, L0793: 1, L0532: 1, L0664: 1, H0520: 1, H0672: 1, S0380: 1, H0696: 1, H0478: 1, H0345: 1, L0439: 1, L0750: 1, L0759: 1, H0343: 1, H0595: 1 and H0422: 1.
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HVVC59	HVVC59R	2117	1 - 147	4292		L0751: 3, L0757: 3, L0662: 2, H0686: 1, H0266: 1, L0055: 1, L0763: 1, L0764: 1, L0768: 1, L0805: 1, L0653: 1, L0666: 1, H0690: 1, H0672: 1, L0777: 1, L0758: 1 and S0276: 1.		
HVVC78	HVVC78R	2118	3 - 320	4293				
HVCL52	HVCL52R	2119	1 - 339	4294	Pro-11 to Lys-31, Ser-36 to Gln-44, Thr-53 to Gly-58, Ala-74 to Arg-87, Pro-105 to His-113.			
HVCL73	HVCL73R	2120	2 - 775	4295	Gly-8 to Lys-22, Phe-29 to Trp-34, Val-95 to Cys-100, Thr-147 to Gln-161, Gln-164 to Lys-170, Glu-179 to Leu-185, Pro-194 to Gly-199.			
HVCM67	HVCM67R	2121	3 - 293	4296	Trp-36 to Thr-43, Gly-51 to Thr-70, Tyr-87 to Glu-97.			
HVCM84	HVCM84R	2122	3 - 347	4297				
HVVCN20	HVVCN20R	2123	35 - 466	4298				
HVVCN29	HVVCN29R	2124	96 - 332	4299		H0521: 182, H0522: 34, S0002: 30, S0278: 27, H0638: 23, S0344:		

13, S0144: 11, S0142: 9, H0580: 8, L0740: 6, L0747: 6, H0445: 6, H0090: 5, L0756: 5, L0777: 5, S0360: 4, H0591: 4, S0426: 4, L0771: 4, L0766: 4, L0776: 4, L0754: 4, S0194: 4, H0341: 3, S0376: 3, H0393: 3, H0575: 3, H0538: 3, H0144: 3, H0716: 2, S0212: 2, H0637: 2, H0331: 2, H0632: 2, H0486: 2, H0590: 2, H0046: 2, H0051: 2, S0440: 2, H0509: 2, L0783: 2, L0663: 2, H0555: 2, L0748: 2, L0439: 2, L0745: 2, L0758: 2, L0362: 2, H0170: 1, H0685: 1, T0049: 1, H0177: 1, S0442: 1, S0408: 1, S0132: 1, S0476: 1, S0300: 1, S6022: 1, H0392: 1, H0537: 1, H0438: 1, H0587: 1, H0497: 1, H0270: 1, T0060: 1, H0013: 1,					
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									L0759: 1, S0260: 1, L0599: 1, S0026: 1, H0423: 1, S0412: 1 and H0506: 1.		
HVVCN54	HVVCN54R	2125	2 - 460	4300							
HVVCN66	HVVCN66R	2126	3 - 212	4301							
HVVC013	HVVC013R	2127	2 - 352	4302							
									Gln-61 to Pro-68, Gln-103 to Ala-108, Tyr-111 to Thr-117.		
HVVC016	HVVC016R	2128	170 - 334	4303					Val-28 to Ser-33.		
HVVC087	HVVC087R	2129	3 - 404	4304					Lys-54 to Ala-67, Arg-77 to Thr-86.		
HVVC041	HVVC041R	2130	2 - 442	4305							
HVVC088	HVVC088R	2131	3 - 449	4306					Ala-35 to Ala-41, Pro-46 to Gly-54, Pro-67 to Gly-87.		
HVVC005	HVVC005R	2132	11 - 184	4307					Ser-23 to Lys-30.		
HVVC049	HVVC049R	2133	3 - 605	4308					Glu-74 to Arg-79, Glu-117 to Arg-134.		
HVVC070	HVVC070R	2134	10 - 144	4309					Arg-30 to Phe-36.	H0672: 2 and L0518: 1.	
HVVC093	HVVC093R	2135	1 - 630	4310							
HVVC028	HVVC028R	2136	105 - 335	4311							
HVVC032	HVVC032R	2137	35 - 217	4312					Arg-11 to Pro-17, Ser-33 to Lys-46.		
HVVC054	HVVC054R	2138	237 - 698	4313					His-1 to Asn-8, Arg-10 to Gly-16, Tyr-50 to Gly-56.	L0659: 55, H0644: 23, L0748: 18, L0666: 17, L0747: 17, H0622: 16, S0194: 16, H0553: 15,	

L0662: 15, S0126: 15, L0740: 15, L0754: 14, H0031: 13, H0593: 12, L0649: 11, H0435: 11, L0757: 11, H0124: 10, S0250: 9, S0356: 8, H0672: 7, L0362: 7, L0779: 6, S0210: 5, L0771: 5, L0663: 5, L0664: 5, H0547: 5, L0750: 5, L0601: 5, S0360: 4, H0619: 4, L0764: 4, L0804: 4, L0775: 4, S0358: 3, H0486: 3, H0628: 3, H0264: 3, L0451: 3, L0776: 3, L0655: 3, L0783: 3, H0693: 3, H0660: 3, S0454: 3, L0749: 3, L0605: 3, S0192: 3, H0170: 2, H0294: 2, S0180: 2, H0586: 2, H0013: 2, H0687: 2, H0428: 2, L0483: 2, H0488: 2, S0450: 2, H0647: 2, S0208: 2, L0648: 2, L0523: 2, L0809: 2, L0665: 2, H0144: 2, L0565: 2, H0690: 2,
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HVVCT62	HVVCT62R	2139	340 - 522	4314					L0748: 18, L0794: 7, L0438: 7, L0777: 7, L0809: 6, L0439: 6, L0756: 6, L0750: 5, L0717: 3, L0770: 3, L0776: 3, L0664: 3, L0747: 3, L0757: 3, S0222: 2, H0013: 2, H0596: 2, H0040: 2, L0769: 2, L0768: 2, L0766: 2, H0672: 2, L0731: 2, L0758: 2, L0591: 2, L0599: 2, H0624: 1, S0342: 1, H0638: 1, S0376: 1, H0549: 1, H0587: 1,				
HVVCT14	HVVCT14R	2140	365 - 529	4315	Ile-1 to Ser-6, Lys-13 to His-25.								



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	H0309: 2, H0620: 2, H0266: 2, T0067: 2, H0494: 2, L0761: 2, L0651: 2, L0518: 2, S0126: 2, H0670: 2, S0328: 2, H0521: 2, S3012: 2, S0206: 2, L0745: 2, L0753: 2, L0759: 2, L0596: 2, L0608: 2, H0423: 2, H0395: 1, T0002: 1, H0685: 1, S0218: 1, S0116: 1, S0110: 1, H0484: 1, H0661: 1, H0663: 1, H0306: 1, H0402: 1, S0356: 1, S0442: 1, S0358: 1, S0360: 1, H0208: 1, S0045: 1, H0393: 1, H0351: 1, H0392: 1, H0333: 1, H0574: 1, L0623: 1, T0039: 1, T0040: 1, L0586: 1, H0250: 1, H0156: 1, H0575: 1, S0346: 1, H0318: 1, H0581: 1, H0421: 1, H0597: 1, H0546: 1, H0545: 1, H0046: 1, H0041: 1, H0081: 1, H0012: 1.	
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				H0023: 1, S0388: 1, H0275: 1, H0356: 1, S0023: 1, H0594: 1, H0188: 1, H0428: 1, H0535: 1, H0674: 1, S0036: 1, H0135: 1, H0063: 1, H0413: 1, H0056: 1, T0004: 1, H0100: 1, T0042: 1, H0334: 1, H0641: 1, H0647: 1, S0144: 1, S0344: 1, L0763: 1, L0371: 1, L0637: 1, L0764: 1, L0768: 1, L0364: 1, L0376: 1, L0524: 1, L0632: 1, L0655: 1, L0659: 1, L0782: 1, L0809: 1, L0666: 1, L0663: 1, H0144: 1, L0565: 1, H0691: 1, H0547: 1, H0593: 1, H0690: 1, H0684: 1, H0579: 1, S0044: 1, H0631: 1, S0028: 1, L0742: 1, L0748: 1, L0746: 1, S0031: 1, S0434: 1, H0667: 1, S0192: 1, S0276: 1, H0542: 1, H0422: 1, H0506: 1 and
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HVVCV41	HVVCV41R	2142	2 - 310	4317	Glu-1 to Gln-10, Val-74 to Arg-83.	L0600: 1.			
HVVCV68	HVVCV68R	2143	2 - 244	4318	Pro-12 to Ser-18, Pro-25 to Pro-30, Ala-62 to Ser-70.				
HVVCW75	HVVCW75R	2144	3 - 410	4319	Met-22 to Asp-27, Cys-43 to Trp-50, Asp-79 to Trp-93, Glu-124 to Glu-136.	L0794: 5, H0617: 4, H0486: 3, L0800: 3, L0764: 3, H0672: 3, L0751: 3, S0360: 2, H0188: 2, S0022: 2, L0769: 2, L0803: 2, L0809: 2, L0665: 2, L0361: 2, H0556: 1, H0583: 1, H0657: 1, S0418: 1, L0005: 1, S0354: 1, S0408: 1, S0045: 1, S0046: 1, S6014: 1, H0587: 1, H0333: 1, H0559: 1, H0596: 1, H0673: 1, H0616: 1, H0494: 1, L0761: 1, L0662: 1, L0651: 1, L0659: 1, L0382: 1, L5622: 1, L0663: 1, H0690: 1, H0670: 1, S0152: 1, S0390: 1, L0747: 1, L0777: 1, L0731: 1, L0758: 1, S0436: 1,			

HVVCX17	HVVCX17R	2145	124 - 297	4320	Asp-1 to Pro-10.	L0592: 1, L0601: 1 and S0424: 1. H0052: 15, H0585: 12, L0740: 12, L0439: 11, L0758: 10, L0754: 9, L5286: 8, L0748: 8, H0141: 7, L0666: 7, H0521: 7, L0742: 7, L0749: 7, H0556: 6, S0222: 6, H0494: 6, L0743: 6, L0751: 6, L0757: 6, H0253: 5, T0010: 5, L0803: 5, L0731: 5, H0657: 4, S0360: 4, S0408: 4, S0046: 4, S0278: 4, H0618: 4, S0049: 4, H0617: 4, H0623: 4, S0038: 4, L0764: 4, L0766: 4, L0805: 4, L0809: 4, L0744: 4, L0746: 4, S0040: 3, S0212: 3, L0005: 3, H0441: 3, H0333: 3, H0013: 3, H0599: 3, H0009: 3, H0242: 3, H0644: 3, H0038: 3, H0551: 3, H0412: 3, T0042: 3, L0769: 3, L0804: 3, L0774: 3,		
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			L0776: 3, L0792: 3, L0663: 3, L0438: 3, S0044: 3, S0406: 3, S0028: 3, L0745: 3, L0779: 3, L0752: 3, L0362: 3, S6024: 2, H0733: 2, S0132: 2, H0261: 2, H0455: 2, H0438: 2, H0497: 2, H0041: 2, L0471: 2, H0620: 2, H0024: 2, H0051: 2, H0266: 2, H0284: 2, S0250: 2, T0006: 2, S0366: 2, S0036: 2, H0591: 2, S0344: 2, L0369: 2, L5623: 2, L0791: 2, L0665: 2, S0374: 2, H0520: 2, S0126: 2, H0672: 2, H0436: 2, L0741: 2, L0747: 2, L0750: 2, L0756: 2, L0759: 2, S0436: 2, L0591: 2, L0592: 2, L0485: 2, L0608: 2, L0593: 2, L0595: 2, H0667: 2, H0423: 2, L0718: 2, H0149: 1, H0265: 1, H0139: 1, H0716: 1, S0114: 1,				
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HVVCX46	HVVCX46R	2146	35 - 418	4321	Arg-9 to Ile-31, Gln-38 to Lys-43, Gln-87 to Ala-92,	H0674: 1, H0135: 1, H0040: 1, H0616: 1, H0087: 1, H0264: 1, H0488: 1, H0268: 1, H0059: 1, H0100: 1, L0351: 1, H0334: 1, H0633: 1, S0142: 1, H0538: 1, S0426: 1, L0640: 1, L0637: 1, L5575: 1, L0800: 1, L0648: 1, L0794: 1, L0655: 1, L0657: 1, L0659: 1, L0542: 1, L0783: 1, L0382: 1, L5622: 1, H0144: 1, H0723: 1, H0519: 1, H0690: 1, H0435: 1, S0330: 1, H0539: 1, S0454: 1, S0404: 1, H0555: 1, S3014: 1, L0780: 1, L0755: 1, H0445: 1, H0595: 1, S0434: 1, L0588: 1, L0605: 1, L0366: 1, H0136: 1, H0542: 1, H0543: 1, H0422: 1, H0506: 1 and H0008: 1.		
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HVVCY29	HVVCY29R	2147	2 - 775	4322	Ser-116 to Pro-128. Ser-8 to Ser-14, Asn-68 to Tyr-74, His-80 to Val-91, Glu-141 to Phe-147, Ala-159 to Ser-170, Asp-184 to Gly-199.			
HVVCY55	HVVCY55R	2148	2 - 697	4323	Pro-60 to Gly-72, Gln-89 to Ser-94, Pro-121 to Pro-132, Pro-146 to Pro-166.			
HVVCY60	HVVCY60R	2149	1 - 588	4324	Lys-30 to Glu-36, Lys-55 to Tyr-68, Ile-82 to Asp-87, Trp-115 to Ser-125, Pro-139 to Pro-146.			
HVVCY62	HVVCY62R	2150	3 - 620	4325	Ala-17 to Lys-23, Leu-25 to Ala-35, Gln-71 to Ala-76, Tyr-79 to His-85, Pro-112 to Gly-120, Gly-149 to Tyr-165, Lys-175 to His-181.			
HVVCY75	HVVCY75R	2151	139 - 276	4326				
HVVCY77	HVVCY77R	2152	2 - 598	4327	Glu-179 to Ala-184.			
HVVCZ18	HVVCZ18R	2153	423 - 542	4328				
HVVCZ50	HVVCZ50R	2154	139 - 291	4329		H0412: 26, S0360: 11, S0126: 8, H0014: 7, H0628: 6, H0413: 6,		

	S0212: 5, S0045: 5, H0411: 5, H0486: 4, S0003: 4, S0210: 4, H0672: 4, L0731: 4, S0192: 4, S0418: 3, S0046: 3, H0169: 3, L0649: 3, S0040: 2, H0671: 2, H0662: 2, S0358: 2, S0376: 2, S0132: 2, H0635: 2, H0098: 2, H0544: 2, H0546: 2, H0545: 2, H0242: 2, H0015: 2, S0250: 2, H0551: 2, H0268: 2, H0494: 2, L0659: 2, L0517: 2, L0809: 2, H0689: 2, S0028: 2, H0506: 2, H0170: 1, H0171: 1, H0295: 1, H0661: 1, H0639: 1, H0574: 1, H0599: 1, L0022: 1, H0108: 1, H0042: 1, H0004: 1, H0044: 1, H0355: 1, H0510: 1, H0266: 1, S0318: 1, S0316: 1, S0022: 1, H0328: 1, H0039: 1, H0622: 1, H0634: 1, H0488: 1, H0623: 1,					
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	H0222: 1, H0713: 1, L0420: 1, H0661: 1, H0663: 1, S0360: 1, S0410: 1, H0580: 1, S0007: 1, H0619: 1, H0351: 1, S6022: 1, H0587: 1, H0013: 1, H0427: 1, H0097: 1, H0052: 1, T0110: 1, H0231: 1, L0471: 1, H0266: 1, H0687: 1, S0250: 1, S0214: 1, H0428: 1, T0023: 1, H0628: 1, H0551: 1, H0412: 1, H0494: 1, H0366: 1, S0352: 1, S0440: 1, H0633: 1, H0646: 1, H0538: 1, S0422: 1, S0426: 1, L0369: 1, L0500: 1, L0770: 1, L0637: 1, L0642: 1, L0764: 1, L0381: 1, L0774: 1, L0775: 1, L0375: 1, L0806: 1, L0805: 1, L0654: 1, L0659: 1, L0783: 1, L0666: 1, L0664: 1, L0665: 1, S0374: 1, S0148: 1, H0520: 1, H0519: 1	
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								H0593: 1, S0126: 1, H0660: 1, H0648: 1, H0672: 1, S0330: 1, H0539: 1, S0152: 1, S0037: 1, L0747: 1, L0605: 1, S0011: 1, H0423: 1, H0422: 1 and H0506: 1.			
HVVDH44	HVVDH44R	2156	2 - 580	4331							
HVVDM23	HVVDM23R	2157	3 - 545	4332							
HVVDM31	HVVDM31R	2158	3 - 446	4333							
HVVDM45	HVVDM45R	2159	1 - 390	4334				L0742: 10, H0144: 6, H0265: 5, S0116: 4, S0046: 4, S0222: 4, H0556: 3, H0250: 3, H0052: 3, S0027: 3, L0595: 3, S0212: 2, H0306: 2, S0358: 2, H0013: 2, H0618: 2, H0124: 2, H0100: 2, S0053: 2, H0660: 2, S0330: 2, S3012: 2, L0748: 2, L0439: 2, L0745: 2, L0757: 2, H0445: 2, S0342: 1, H0484: 1, H0638: 1, S0007: 1, H0393: 1, H0437: 1, H0549: 1, H0438: 1, H0486: 1, H0253: 1, H0390: 1,			

HVVDM53	HVVDM53R	2160	2 - 241	4335				H0544: 1, H0046: 1, H0009: 1, H0023: 1, N0007: 1, T0010: 1, H0188: 1, H0687: 1, S0003: 1, H0030: 1, S0364: 1, L0455: 1, S0366: 1, H0090: 1, H0038: 1, H0551: 1, H0412: 1, H0059: 1, S0038: 1, H0130: 1, H0641: 1, S0142: 1, S0002: 1, H0517: 1, L0643: 1, L0771: 1, L0794: 1, L0766: 1, L0775: 1, L0654: 1, L0655: 1, L0352: 1, S0008: 1, H0435: 1, H0659: 1, H0658: 1, H0672: 1, H0521: 1, H0522: 1, S0044: 1, H0576: 1, L0779: 1, L0605: 1, L0593: 1, S0026: 1, H0667: 1, S0276: 1, S0196: 1, H0542: 1, H0423: 1 and H0506: 1.	
HVVDM83	HVVDM83R	2161	204 - 524	4336				L0766: 9, L0665: 7, L0659: 6, L0761: 5, L0662: 4, L0776: 4.	

			S0418: 3, S0007: 3, H0559: 3, H0457: 3, H0617: 3, L0800: 3, L0751: 3, L0750: 3, H0309: 2, L0769: 2, L0667: 2, L0794: 2, L0664: 2, L0756: 2, L0779: 2, L0777: 2, L0758: 2, H0543: 2, H0556: 1, S0402: 1, S0114: 1, H0650: 1, H0656: 1, S0116: 1, H0484: 1, H0254: 1, H0255: 1, S0420: 1, S0354: 1, S0358: 1, H0676: 1, L0717: 1, S0222: 1, H0614: 1, L0622: 1, H0486: 1, H0069: 1, H0253: 1, H0581: 1, H0024: 1, H0051: 1, H0100: 1, H0494: 1, H0625: 1, H0561: 1, S0144: 1, L0374: 1, L0771: 1, L0773: 1, L0768: 1, L0387: 1, L0774: 1, L0653: 1, L0657: 1, L0384: 1, L0789: 1, L0790: 1, L0792: 1, H0684: 1, H0659: 1,				
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								H0670: 1, H0672: 1, H0521: 1, S0027: 1, L0741: 1, L0754: 1, L0749: 1, L0780: 1, H0422: 1 and H0352: 1.		
HVVDN29	HVVDN29R	2162	2 - 685	4337	Asp-50 to Gly-55.					
HVVDN77	HVVDN77R	2163	1 - 594	4338						
HVVDPT0	HVVDPT0R	2164	40 - 354	4339	Lys-24 to Glu-34, Pro-47 to Arg-56, Tyr-77 to Pro-90.					
HVVDQ46	HVVDQ46R	2165	106 - 423	4340	Lys-12 to Thr-18, Glu-20 to Lys-26, Lys-83 to Lys-90.			H0551: 9, L0662: 9, L0471: 8, L0754: 7, L0766: 6, L0666: 6, S0358: 5, L0663: 5, L0750: 5, L0779: 5, S0007: 4, H0373: 4, L0770: 4, L0803: 4, L0777: 4, L0752: 4, L0757: 4, L0758: 4, S0114: 3, S0212: 3, H0673: 3, H0412: 3, L0769: 3, L0805: 3, L0776: 3, L0809: 3, S0126: 3, L0740: 3, H0506: 3, H0657: 2, S0116: 2, S0356: 2, S0360: 2, H0411: 2, H0390: 2, H0318: 2, S0214: 2, H0644: 2, H0617: 2, H0494: 2.		





HVVDQ49	HVVDQ49R	2166	2 - 103	4341		L0783: 1, L0382: 1, L0789: 1, L0664: 1, L0665: 1, H0593: 1, H0690: 1, H0682: 1, H0684: 1, H0648: 1, H0672: 1, H0539: 1, H0521: 1, H0555: 1, H0478: 1, L0609: 1, L0744: 1, L0748: 1, L0747: 1, L0755: 1, H0445: 1, H0343: 1, L0581: 1, H0653: 1 and H0352: 1.		
						H0521: 7, H0052: 6, H0622: 5, L0646: 5, H0617: 4, L0662: 4, L0659: 4, H0556: 3, H0341: 3, H0484: 3, S0358: 3, H0580: 3, H0551: 3, L0369: 3, L0657: 3, L0664: 3, H0670: 3, S0328: 3, H0445: 3, L0603: 3, H0583: 2, S0212: 2, S0376: 2, S0007: 2, S0045: 2, S0046: 2, S0132: 2, H0438: 2, H0586: 2, H0486: 2, H0618: 2, S0474: 2, S0049: 2, H0545: 2,		

	H0268: 2, H0494: 2, H0509: 2, H0647: 2, L5565: 2, L0645: 2, L0764: 2, L0666: 2, L0665: 2, H0520: 2, H0689: 2, H0658: 2, S0152: 2, S0406: 2, S3014: 2, L0439: 2, L0751: 2, L0754: 2, L0750: 2, L0758: 2, S0434: 2, L0596: 2, L0581: 2, L0595: 2, L0601: 2, S6024: 1, H0294: 1, H0657: 1, H0656: 1, L0415: 1, H0669: 1, H0671: 1, S0356: 1, S0354: 1, S0360: 1, S0410: 1, H0340: 1, S0476: 1, S0278: 1, H0549: 1, H0550: 1, H0370: 1, H0587: 1, H0497: 1, H0643: 1, H0257: 1, H0318: 1, H0457: 1, H0041: 1, H0123: 1, H0024: 1, H0071: 1, H0375: 1, H0290: 1, H0292: 1, H0428: 1, L0142: 1, S0036: 1, H0063: 1 H0087: 1	
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HVVDS35	HVVD35R	2169	2 - 640	4344		4	S0412: 22, L0662: 19, L0777: 14, S0010: 11, S0222: 9, S6028: 9, L0750: 9, T0010: 8, L0659: 8, L0747: 8, L0756: 8, L0663: 7, L0439: 7, H0051: 6, L0518: 6, L0754: 6, L0752: 6, S0280: 5, H0575: 5, S0358: 4, S0346: 4, L0753: 4, H0170: 3, H0662: 3, S0360: 3, H0427: 3, L0471: 3, H0373: 3, L0638: 3, L0637: 3, L0764: 3, L0774: 3, L0809: 3, L0666: 3, S0310: 3, H0672: 3, H0696: 3, L0731: 3, H0506: 3, H0713: 2, S0408: 2, H0411: 2, H0455: 2, H0574: 2, S0414: 2, H0486: 2, H0036: 2, S0049: 2, H0052: 2, H0327: 2, H0687: 2, H0428: 2, H0553: 2, H0644: 2, H0038: 2, L0520: 2.		
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L0762: 2, L0770: 2, L0653: 2, L0517: 2, S0044: 2, L0442: 1, H0583: 1, L0443: 1, S0110: 1, S0282: 1, S0400: 1, H0661: 1, S0348: 1, S0356: 1, S0444: 1, H0329: 1, S0007: 1, H0619: 1, S6026: 1, S0300: 1, L0717: 1, S6022: 1, H0550: 1, H0592: 1, H0587: 1, H0599: 1, H0042: 1, H0590: 1, H0318: 1, H0309: 1, H0545: 1, H0563: 1, H0564: 1, H0123: 1, H0019: 1, S0050: 1, L0163: 1, S0388: 1, H0356: 1, H0328: 1, H0688: 1, H0039: 1, T0023: 1, H0031: 1, H0111: 1, H0169: 1, S0364: 1, L0455: 1, H0135: 1, H0163: 1, T0067: 1, T0069: 1, T0004: 1, H0100: 1, S0112: 1, L0370: 1, L0598: 1, L0769: 1, L0630: 1, L0800: 1,							
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HVVDT29	HVVDT29R	2171	109 - 471	4346	Glu-11 to Arg-17,	L0748: 11, L0758: 10,		
HVVDT44	HVVDT44R	2172	2 - 460	4347	Arg-66 to Pro-79, Ser-104 to Gln-112, Ser-116 to Ser-125.	L0747: 8, L0439: 7, H0144: 6, L0805: 5, L0662: 4, H0341: 3, H0052: 3, L0794: 3, L0803: 3, L0809: 3, H0672: 3, L0741: 3, L0752: 3, H0619: 2, S0222: 2, H0013: 2, H0014: 2, H0266: 2, H0553: 2, L0455: 2, H0591: 2, L0770: 2, L0646: 2, L0764: 2, L0666: 2, L0665: 2, H0547: 2, S0126: 2, L0596: 2, L0589: 2, L0605: 2, H0543: 2, H0423: 2, H0624: 1, H0556: 1, H0686: 1, S0040: 1, H0717: 1, H0671: 1, S0476: 1, L0717: 1, H0411: 1, H0586: 1, H0333: 1, H0574: 1, L0021: 1, H0575: 1, H0618: 1, S0010: 1, H0318: 1, H0544: 1, H0009: 1, H0050: 1, L0471: 1, L0163: 1, S6028: 1,		



HVVDU49	HVVDU49R	2173	328 - 600	4348	Asn-1 to Leu-6.	S0022: 1, S0214: 1, H0628: 1, L0456: 1, S0366: 1, S0036: 1, H0090: 1, H0038: 1, H0040: 1, H0551: 1, H0264: 1, H0059: 1, S0112: 1, T0041: 1, H0647: 1, H0652: 1, S0426: 1, L0763: 1, L0638: 1, L0796: 1, L0630: 1, L0768: 1, L0649: 1, L0774: 1, L0378: 1, L0653: 1, L0657: 1, L0659: 1, L0783: 1, L0647: 1, L0791: 1, L0663: 1, L0664: 1, S0053: 1, H0519: 1, H0539: 1, H0696: 1, S0406: 1, H0555: 1, H0627: 1, L0744: 1, L0754: 1, L0746: 1, L0759: 1, S0031: 1, L0584: 1, L0608: 1, L0594: 1, S0026: 1, H0665: 1, H0136: 1, H0216: 1 and H0422: 1.	H0672: 2 and S6028: 1.
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HVVDW02	HVVDW02R	2174	3 - 266	4349					
HVVDW61	HVVDW61R	2175	2 - 502	4350	Ser-1 to Pro-9.				
HVVDX40	HVVDX40R	2176	294 - 455	4351					
HVVDX90	HVVDX90R	2177	14 - 511	4352					
HWHHD07	HWHHD07R	2178	2 - 391	4353					
HWLAC51	HWLAC51R	2179	11 - 178	4354					
HWLJR51	HWLJR51R	2180	167 - 343	4355		L0766: 3, H0651: 2, H0686: 1, H0656: 1, S0358: 1, L0773: 1, L0775: 1, L0657: 1, L0809: 1, L0792: 1 and L0731: 1.			
HWLME48	HWLME48R	2181	3 - 197	4356	Lys-1 to Asp-8, Lys-41 to Gln-50.	S0152: 7, L0601: 4, H0013: 3, H0551: 3, H0264: 3, H0521: 3, S0046: 2, H0050: 2, H0266: 2, S0022: 2, H0031: 2, H0644: 2, H0494: 2, H0519: 2, H0556: 1, S0040: 1, T0049: 1, S0001: 1, S0356: 1, S0354: 1, S0376: 1, S0045: 1, S0132: 1, H0549: 1,			

HWLVY65	HWLVY65R	2182	209 - 373	4357				H0550: 1, H0486: 1, T0039: 1, T0040: 1, S0280: 1, H0042: 1, H0575: 1, T0082: 1, H0421: 1, L0471: 1, H0373: 1, H0051: 1, H0355: 1, H0615: 1, H0622: 1, L0483: 1, S0364: 1, H0591: 1, H0268: 1, H0561: 1, S0210: 1, L0364: 1, L0649: 1, L0538: 1, L0659: 1, S0428: 1, H0144: 1, L0602: 1, S0390: 1, S0028: 1, L0758: 1, S0434: 1, L0485: 1 and H0543: 1.		
HWMB35	HWMB35R	2183	1 - 435	4358						
HWNFO25	HWNFO25R	2184	43 - 210	4359				Cys-6 to Ser-12, Gln-27 to Glu-32, Arg-52 to Arg-67, Asp-140 to Asp-145.		



[0040] The first column in Table 1 provides a unique "Clone ID NO:Z" for a cDNA clone related to each contig sequence disclosed in Table 1. This clone ID references the cDNA clone which contains at least the 5' most sequence of the assembled contig, and at least a portion of SEQ ID NO:X was determined by directly sequencing the referenced clone. The reference clone may have more sequence than described in the sequence listing or the clone may have less. In the vast majority of cases, however, the clone is believed to encode a full-length polypeptide. In the case where a clone is not full-length, a full-length cDNA can be obtained by methods known in the art and/or as described elsewhere herein.

[0041] The second column in Table 1 provides a unique "Contig ID" identification for each contig sequence. The third column provides the "SEQ ID NO:X" identifier for each of the ovarian associated contig polynucleotide sequences disclosed in Table 1. The fourth column, "ORF (From-To)", provides the location (i.e., nucleotide position numbers) within the polynucleotide sequence "SEQ ID NO:X" that delineate the preferred open reading frame (ORF) shown in the sequence listing and referenced in Table 1, column 5, as SEQ ID NO:Y. Where the nucleotide position number "To" is lower than the nucleotide position number "From", the preferred ORF is the reverse complement of the referenced polynucleotide sequence.

[0042] The fifth column in Table 1 provides the corresponding SEQ ID NO:Y for the polypeptide sequence encoded by the preferred ORF delineated in column 4. In one embodiment, the invention provides an amino acid sequence comprising, or alternatively consisting of, a polypeptide encoded by the portion of SEQ ID NO:X delineated by "ORF (From-To)". Also provided are polynucleotides encoding such amino acid sequences and the complementary strand thereto.

[0043] Column 6 in Table 1 lists residues comprising epitopes contained in the polypeptides encoded by the preferred ORF (SEQ ID NO:Y), as predicted using the algorithm of Jameson and Wolf, (1988) Comp. Appl. Biosci. 4:181-186. The Jameson-Wolf antigenic analysis was performed using the computer program PROTEAN (Version 3.11 for the Power MacIntosh, DNASTAR, Inc., 1228 South Park Street Madison, WI). In specific embodiments, polypeptides of the invention comprise, or alternatively consist of, at least one, two, three, four, five or more of the predicted epitopes as described in Table 1. It

will be appreciated that depending on the analytical criteria used to predict antigenic determinants, the exact address of the determinant may vary slightly.

[0044] Column 7 in Table 1 provides an expression profile and library code: count for each of the contig sequences (SEQ ID NO:X) disclosed in Table 1, which can routinely be combined with the information provided in Table 4 and used to determine the normal or diseased tissues, cells, and/or cell line libraries which predominantly express the polynucleotides of the invention. The first number in column 7 (preceding the colon), represents the tissue/cell source identifier code corresponding to the code and description provided in Table 4. For those identifier codes in which the first two letters are not "AR", the second number in column 7 (following the colon) represents the number of times a sequence corresponding to the reference polynucleotide sequence was identified in the tissue/cell source. Those tissue/cell source identifier codes in which the first two letters are "AR" designate information generated using DNA array technology. Utilizing this technology, cDNAs were amplified by PCR and then transferred, in duplicate, onto the array. Gene expression was assayed through hybridization of first strand cDNA probes to the DNA array. cDNA probes were generated from total RNA extracted from a variety of different tissues and cell lines. Probe synthesis was performed in the presence of <sup>33</sup>P dCTP, using oligo(dT) to prime reverse transcription. After hybridization, high stringency washing conditions were employed to remove non-specific hybrids from the array. The remaining signal, emanating from each gene target, was measured using a Phosphorimager. Gene expression was reported as Phosphor Stimulating Luminescence (PSL) which reflects the level of phosphor signal generated from the probe hybridized to each of the gene targets represented on the array. A local background signal subtraction was performed before the total signal generated from each array was used to normalize gene expression between the different hybridizations. The value presented after "[array code]:" represents the mean of the duplicate values, following background subtraction and probe normalization. One of skill in the art could routinely use this information to identify normal and/or diseased tissue(s) which show a predominant expression pattern of the corresponding polynucleotide of the invention or to identify polynucleotides which show predominant and/or specific tissue and/or cell expression. The sequences disclosed herein have been determined to be

predominantly expressed in ovarian tissues, including normal and diseased ovarian tissues (See Table 1, column 7 and Table 4).

[0045] Column 8 in Table 1 provides a chromosomal map location for certain polynucleotides of the invention. Chromosomal location was determined by finding exact matches to EST and cDNA sequences contained in the NCBI (National Center for Biotechnology Information) UniGene database. Each sequence in the UniGene database is assigned to a "cluster"; all of the ESTs, cDNAs, and STSs in a cluster are believed to be derived from a single gene. Chromosomal mapping data is often available for one or more sequence(s) in a UniGene cluster; this data (if consistent) is then applied to the cluster as a whole. Thus, it is possible to infer the chromosomal location of a new polynucleotide sequence by determining its identity with a mapped UniGene cluster.

[0046] A modified version of the computer program BLASTN (Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)) was used to search the UniGene database for EST or cDNA sequences that contain exact or near-exact matches to a polynucleotide sequence of the invention (the 'Query'). A sequence from the UniGene database (the 'Subject') was said to be an exact match if it contained a segment of 50 nucleotides in length such that 48 of those nucleotides were in the same order as found in the Query sequence. If all of the matches that met this criteria were in the same UniGene cluster, and mapping data was available for this cluster, it is indicated in Table 1 under the heading "Cytologic Band". Where a cluster had been further localized to a distinct cytologic band, that band is disclosed; where no banding information was available, but the gene had been localized to a single chromosome, the chromosome is disclosed.

[0047] Once a presumptive chromosomal location was determined for a polynucleotide of the invention, an associated disease locus was identified by comparison with a database of diseases which have been experimentally associated with genetic loci. The database used was the Morbid Map, derived from OMIM™ (*supra*). If the putative chromosomal location of a polynucleotide of the invention (Query sequence) was associated with a disease in the Morbid Map database, an OMIM reference identification number was noted in column 9, Table 1, labeled "OMIM Disease Reference(s)". Table 5 is a key to the OMIM reference identification numbers (column 1), and provides a description of the associated disease in Column 2.

TABLE 2

Clone ID NO:Z	Contig ID:	SEQ ID NO: X	Analysis Method	PFam/NR Description	PFam/NR Accession Number	Score/ Percent Identity	NT From	NT To
HOVCD34	396327	11	blastx.2	(AK000844) unnamed protein product [Homo sapiens]	dbj BAA91396.1	58%	319	167
HEBGD58	498281	12	blastx.2	eggshell protein - fluke (Schistosoma haematobium) (subclone 1)	pir A44805 A44805	74%	3	98
HETCD42	533532	13	blastx.2	actin capping protein alpha subunit [Homo sapiens]	gb AAA88848.1	100%	90	947
HTXKC18	535854	14	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	62%	873	676
HLDRK20	553765	15	blastx.2	complement factor B [Homo sapiens]	emb CAA51389.1	91%	150	1283
H2MBD33	558474	16	blastx.2	NBR2 PROTEIN (NEXT TO BRCA1 GENE 2 PROTEIN).	sp O15453 NBR2_H UMAN	100%	138	290
HSYBX61	558708	17	blastx.2	N-cadherin [Homo sapiens]	gb AAA03236.1	98%	3	515
HELHC03	562745	18	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094 21	67% 81%	1063 1154	905 1089
HOFMP70	585385	19	blastx.2	precursor polypeptide	emb CAA33261.1	75%	120	347



[illegible]

[illegible]

H2LAN34	705692	25	blastx.2	unnamed protein product [unidentified]		emb CAB42187.1	38% 50% 32% 64%	240 471 501 14	100 418 421 199
HPMBZ40	711500	26	blastx.2	fusion protein: ubiquitin (bases 43_513); ribosomal protein S27a (bases 217_532) [Rattus norvegicus]		emb CAA57432.1	87%	402	563
HL YEP52	732342	27	blastx.2	tyrosine kinase activator protein 1 (TKA-1) [Homo sapiens]		emb CAA90511.1	95% 92% 51% 35% 32% 38%	101 585 149 619 619 775	580 1007 547 1008 1008 846
HTTEC47	745343	28	blastx.2	unknown protein [Homo sapiens]		gb AAA88038.1	73% 77% 63%	696 229 902	232 20 627
HOFMO90	746416	29	blastx.2	(AF046001) zinc finger transcription factor [Homo sapiens]		gb AAC78561.1	89% 70%	122 348	367 440
HCHND34	762806	30	blastx.2	cytochrome oxidase subunit III [Phoca vitulina]		emb CAA45263.1	81% 86%	12 500	497 778

HAMGI86	785328	31	blastx.2	unnamed protein product [unidentified] (AK014485) putative [Mus musculus]	emb CAB42212.1	91%	424	609
HLWCN67	794213	32	blastx.2	acidic ribosomal phosphoprotein (P0) [Homo sapiens]	dbj BAB29387.1	94%	611	667
HOFAC09	806819	33	blastx.2	X-linked retinopathy protein [C-terminal, clone XEH.8c] [human, Peptide Partial, 100 aa] [Homo sapiens]	gb AAA36470.1	80%	386	631
HRDEL61	824886	34	blastx.2	(AF151799) CGI-40 protein [Homo sapiens]	gb AAB26149.1	87%	42	812
HDPOR60	828176	35	blastx.2	rTSbeta [Homo sapiens]	gb AAD34036.1 AF151799.1	52%	5	55
HPRTS71	828574	36	blastx.2	tyrosine kinase receptor [Homo sapiens]	emb CAA61761.1	67%	808	632
HOHBI90	828862	37	blastx.2	pericentriol material 1 [Homo sapiens]	gb AAA61243.1	45%	644	576
HOHAL47	828872	38	blastx.2	O-6-methylguanine-DNA methyltransferase [Homo sapiens]	gb AAA60120.1	96%	8	1867
HYASE58	829298	39	blastx.2	ribosomal protein L22	emb CAA55204.1	82%	8	1867
HKAAH95	829958	40	blastx.2			100%	45	458
						90%	193	417
						63%	159	281
						34%	268	396
						53%	375	419
						88%	328	879
						99%	74	694
						70%	41	418

HTTIQ02	829981	41	blastx.2	[Rattus norvegicus] activating transcription factor 3 [Homo sapiens]	gb AAA20506.1	96%	44	391
HWACG9 1	830195	42	blastx.2	heat shock protein 90, hsp90 [rats, brain, Peptide, 724 aa] [Rattus sp.]	gb AAB23369.1	82% 93% 37% 76%	119 88 60 573	610 132 170 611
HUFBX52	830497	43	blastx.2	tenascin X [Homo sapiens]	gb AAB47488.1 AAB 47488	99% 100% 29% 26% 30% 27% 29% 28% 25% 27% 28% 28% 27% 28% 29% 24% 24% 32% 29% 24% 30% 32%	2 1525 20 20 20 17 20 17 20 8 2 14 20 17 20 365 20 413 11 2 20 17	1525 1785 1255 1114 1033 991 988 934 1096 898 973 856 892 712 712 1150 973 946 907 991 589 589

					712
					601
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					1111
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					1021
					604
					1690
					1096
					1684
					1135
					1309
					1684
					877
					331
					1045
					1684

							27%	1487	1684
							30%	622	825
							25%	1487	1684
							37%	1556	1690
							28%	1487	1684
							23%	1487	1690
							27%	316	501
							48%	1110	1190
							30%	962	1150
							64%	1101	1142
							32%	267	404
							26%	52	498
							52%	1607	1663
							32%	1089	1181
							32%	1089	1181
							22%	650	1027
							53%	1398	1436
							60%	1089	1118
							41%	189	257
							29%	118	255
							37%	979	1083
							29%	1024	1146
							35%	361	480
							34%	1050	1175
HWLJE49	831453	44	blastx.2	2A9 peptide [Homo sapiens]	gb AAA35886.1		98%	46	315
HLQBT44	832454	45	blastx.2	precursor polypeptide [Homo sapiens]	emb CAA28169.1		100%	175	357
HSLGG58	833088	46	blastx.2	(AF096304) putative sterol reductase SR-1	gb AAD09765.1		100%	134	997
							97%	1018	1305

HCHBQ33	840756	47	blastx.2	[Homo sapiens] (AB005624) rig-analog DNA-binding protein [Sus scrofa]	dbj BAA21510.1	61%	976	1029
HDTMK30	840862	48	blastx.2	cysteine-rich intestinal protein [Homo sapiens]	gb AAB61158.1	100%	123	353
HDPFX64	841088	49	blastx.2	quinone oxidoreductase [Homo sapiens]	gb AAA60239.1	100%	404	1096
HODFG71	843485	50	blastx.2	(AF081114) ORF2 [Mus musculus domesticus]	gb AAC72810.1	29% 34% 50% 41% 34%	1121 591 281 1188 860	834 301 198 1102 717
HCE3I65	844534	51	blastx.2	kinesin-like motor protein KIF1C [Homo sapiens]	gb AAC52117.1	100%	11	172
HSAVH65	847355	52	blastx.2	plasmolipin [Rattus norvegicus]	emb CAA90017.1	48%	11	382
HBXFT41	847647	53	blastx.2	P26s4 [Cricetinae gen. sp.]	gb AAB34132.1	93%	707	805
HBMCM3	847821	54	blastx.2	(AF161356) HSPC093 [Homo sapiens]	gb AAF28916.1 AF1 61356_1	55% 71% 59%	406 485 333	266 390 268



HACBO42	849064	55	blastx.2	G-protein coupled receptor, SREB1 - human	pir JC7287 JC7287	63%	534	502
HODBF86	859572	56	blastx.2	(AF123880) gag polypeptide [multiple sclerosis associated retrovirus element]	gb AAD48374.1	40% 35%	225 542	437 652
HOABP90	859622	57	blastx.2	(AF089895) cAMP-dependent protein kinase subunit R2 beta [Oryctolagus cuniculus]	gb AAF00037.1	97%	628	735
HE8UE42	862010	58	blastx.2	(AJ224875) glucosyltransferase [Homo sapiens]	emb CAA12176.1	99%	15	1610
HUSJJ59	862481	59	blastx.2	(AF070661) HSPC005 [Homo sapiens]	gb AAD20967.1	100%	80	316
HSSDM07	863515	60	blastx.2	TcD37 homolog [Homo sapiens]	gb AAF04914.1 U67085_1	94% 95% 95%	224 647 160	691 1090 225
HBCBW52	866444	61	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	69%	1498	1202
HOGAS18	867969	62	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	79%	508	380
HHSDL18	869701	63	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF118094_21	65% 61% 67%	590 429 317	721 536 427

HLDOG81	874506	65	blastx.2	(AF153191) nm23-H7 [Homo sapiens]	gb AAD34622.1 AF1 53191.1	100%	1232	798
HTXQF81	874608	66	blastx.2	A4 protein [Homo sapiens]	gb AAA35499.1	29%	1208	813
HCRNG90	874787	67	blastx.2	5'-nucleotidase [Homo sapiens]	emb CAA39271.1	100%	173	628
HPWCL64	874891	68	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	98%	156	911
HWLMV6 2	874930	69	blastx.2	(AL137608) hypothetical protein [Homo sapiens]	emb CAB70840.1	93%	44	643
H2MAC06	874931	70	blastx.2	neutrophil gelatinase associated lipocalin [Homo sapiens]	emb CAA58127.1	31%	104	397
HWLRF06	875093	71	blastx.2	GCP170 [Homo sapiens]	dbj BAA23661.1	100%	170	763
HODDO41	875352	72	blastx.2	(AF064604) KE03 protein [Homo sapiens]	gb AAC17109.1	60%	23	373
HCHMQ74	875371	73	blastx.2	(AK001527) unnamed protein product [Homo sapiens]	dbj BAA91741.1	53%	3	383
HT3AI55	875682	74	blastx.2	(AK000219) unnamed protein product [Homo sapiens]	dbj BAA91018.1	80%	350	454
HMVBD68	876052	75	blastx.2	catalase [Campylobacter jejuni]	emb CAA59444.1	97%	3	440
HOCTA74	876487	76	blastx.2	propionyl-CoA carboxylase [Homo sapiens]	emb CAA32763.1	98%	4	504
						85%	207	103
						100%	65	292

HISET05	876686	77	blastx.2	(AJ270993) homeobox protein [Homo sapiens]	emb CAB65909.1	95%	511	849
HCRQM22	876696	78	blastx.2	hepatocyte nuclear factor-3/fork head homolog 11B [Homo 1]	gb AAC51129.1	66%	801	926
HLHTC92	877310	79	blastx.2	neuronal PAS2 [Homo sapiens]	gb AAB47250.1	84%	3	401
H2CAA49	879484	80	blastx.2	(AF033651) cellular apoptosis susceptibility protein [Homo sapiens]	gb AAC35297.1	97%	197	418
HETKQ94	880545	81	blastx.2	(AL132954) putative protein [Arabidopsis thaliana]	emb CAB75750.1	95%	142	201
HOFMO23	882466	82	blastx.2	(AF089745) FK506-binding protein [Homo sapiens]	gb AAC78853.1	32%	482	574
HNTNP58	882787	83	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094 21	100%	954	2108
HOFNY28	888480	84	blastx.2	AF-1 [Homo sapiens]	gb AAA16955.1	35%	53	838
HE8MQ01	889128	85	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094 21	23%	1556	2080
HE2RG21	891139	86	blastx.2	peptidylprolyl isomerase [Homo sapiens]	emb CAA37039.1	33%	1155	1298
HHENW77	894855	87	blastx.2	vacuolar proton-ATPase subunit M9.2	emb CAA75571.1	95%	14	499
						54%	14	499
						46%	14	454
						52%	194	499
						62%	2230	2391
						60%	2382	2480
						63%	18	476
						62%	416	658
						71%	2699	2490
						100%	59	553
						71%	99	338

HOFNU55	897344	88	blastx.2	[Homo sapiens] (AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	70%	654	544
HE8TE40	897862	89	blastx.2	Rabin3 [Rattus norvegicus]	gb AAA67890.1	87%	152	1114
HNTCH73	900546	90	blastx.2	bone morphogenetic protein 2B [Homo sapiens]	gb AAA51835.1	93%	1086	1532
HHFBY53	902534	91	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	100%	195	1418
HDPIE44	904763	92	blastx.2	(AF200706) UNC-84A [Caenorhabditis elegans]	gb AAF15883.1 AF2 00706_1	95%	6	128
HHSAX10	904783	93	blastx.2	delta-9 desaturase [Gallus gallus]	emb CAA42997.1	22%	837	956
HPIAX83	906066	94	blastx.2	weakly similar to E. nidulans bimA gene product (SP:P17885) [Caenorhabditis elegans]	gb AAA81143.1	20%	801	932
HOFNG28	908746	95	blastx.2	CD59 GLYCOPROTEIN	sp O62680 CD59_PI G	22%	833	940
						20%	836	955
						47%	1852	2418
						39%	170	313
						25%	1375	1524
						42%	109	171
						71%	9	680
						39%	1167	2459
						37%	588	1025
						19%	1776	2474
						22%	1716	2186
						21%	1653	2093
						24%	2274	2540
						54%	51	401

					PRECURSOR (MEMBRANE ATTACK COMPLEX 1 (PROTECTIN).					
HOFB27	911947	96	blastx.2		(AL050283) hypothetical protein [Homo sapiens]	emb CAB43384.1	97%	640	1491	
							77%	380	745	
							42%	329	427	
HHBH45	913831	97	blastx.2		initiation factor 2 [Homo sapiens]	gb AAA67038.1	100%	11	1498	
HHPDV90	914163	98	blastx.2		[Homo sapiens] (AF090942) PRO0657	gb AAF24054.1 AF0 90942 1	53%	1122	874	
HWMQM4 7	915068	99	blastx.2		(AB029042) ATPase inhibitor precursor [Homo sapiens]	dbj BAA88422.1	100%	53	232	
							100%	1614	1754	
HBGNY08	915214	100	blastx.2		(AP000616) similar to: RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	95%	423	364	
							100%	423	367	
							100%	423	367	
							100%	423	367	
							77%	423	343	
							90%	423	364	
							84%	421	347	
							44%	308	222	
							33%	309	229	
							35%	332	249	
HODGH45	917394	101	blastx.2		(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	80%	819	938	
HWLKE58	917716	102	blastx.2		(AL031629) similar to RNA recognition motif. (aka RRM, RBD, or 1 1	emb CAA20980.2	52%	275	496	

HRADL40	919433	103	blastx.2	dodecenoyl-CoA delta-isomerase [Homo sapiens]	emb CAA81066.1	100%	37	942
HOFMP73	919895	104	blastx.2	cathepsin B [Homo sapiens]	gb AAC37547.1	85%	113	1129
HOFMS02	920253	105	blastx.2	ATPase subunit 6 [Phoca vitulina]	emb CAA45262.1	54%	156	386
HUVHD12	921707	106	blastx.2	inositol polyphosphate 4-phosphatase [Rattus norvegicus]	gb AAB01069.1	35% 30% 60%	187 687 43	492 953 102
HMVDQ4 1	922191	107	blastx.2	(AL137496) hypothetical protein [Homo sapiens]	emb CAB70771.1	98% 99%	384 2	809 385
HODGI03	922879	108	blastx.2	replication protein A 14kDa subunit [Homo sapiens]	gb AAA58350.1	100%	447	635
HODHD14	922955	109	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	60%	22	174
HODDC03	925296	110	blastx.2	ORF4 [Rattus norvegicus]	emb CAA37647.1	40% 58% 50%	126 344 307	245 433 336
HVCAG04	925735	111	blastx.2	(AF034633) GPR39 [Homo sapiens]	gb AAC26082.1	100% 29%	1281 1364	781 1293
HCRCE02	925837	112	blastx.2	putative p150 [Homo sapiens]	gb AAC51269.1	47% 50% 31% 40%	1 709 329 876	489 867 607 971
HHERA91	926067	113	blastx.2	(AK000530) unnamed protein product [Homo sapiens]	dbj BAA91234.1	100%	2031	2399

HAGDL82	928396	114	blastx.2	sapiens] (AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	75% 75%	5 210	208 257
HWBDS34	930484	115	blastx.2	Similar to S.cerevisiae hypothetical protein L3111 (S59316) [Homo sapiens]	dbj BAA13405.1	99%	57	983
H6ESA39	933568	116	blastx.2	BCDNA:LD21720 PROTEIN.	sp Q9XZ25 Q9XZ25	47% 26%	623 14	1150 169
HPCOR06	933678	117	blastx.2	ORFII [Homo sapiens]	emb CAA36480.1	73% 62% 56% 60%	99 310 28 266	266 459 144 310
HTFNO06	933989	118	blastx.2	(AC009177) unknown protein [Arabidopsis thaliana]	gb AAF27013.1 AC0 09177_3	39%	95	505
HODFY08	935520	119	blastx.2	(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	45%	79	447
HRACK27	935717	120	blastx.2	(AL133045) hypothetical protein [Homo sapiens]	emb CAB61372.1	97%	681	1283
HRACW30	940639	121	blastx.2	(AF113887) kappa 1 immunoglobulin light chain [Homo sapiens]	gb AAD29608.1	93%	79	786
HOFOC32	941969	122	blastx.2	placental protein Diff33 [Homo sapiens]	emb CAB09783.1	84%	84	1502
HTTDM15	942511	123	blastx	(AL033127) hypothetical protein	emb CAA21869.1	27% 20%	62 759	427 959

					[Schizosaccharomyces pombe]		32%	965	1048
HOVAY63	944031	124	blastx.2		L1 retroposon, a portion of its ORF2 sequence [Rattus norvegicus]	emb CAA43593.1	65% 43% 34%	583 229 492	488 125 376
HDPFY41	946502	125	blastx.2		(AL050294) hypothetical protein [Homo sapiens]	emb CAB43393.1	94% 88% 52%	624 1984 2039	2072 2037 2113
HCOPB92	948608	126	blastx.2		ORF2, encodes a reverse transcriptase homolog [Homo sapiens]	gb AAB60345.1	60% 51% 66% 64%	99 2 257 169	182 106 310 243
HBJHO83	948708	127	blastx.2		envelope polyprotein [Mus musculus]	gb AAA37565.1	46% 45% 85%	177 64 2	365 174 61
HWME04 4	948719	128	blastx.2		(AF038963) RNA helicase [Homo sapiens]	gb AAD19826.1	99%	3	1343
HFXJA96	949001	129	blastx.2		IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	93%	40	135
HTLGV19	949574	130	blastx.2		human complement C1r [Homo sapiens]	gb AAA51851.1	46% 36% 25%	72 604 567	539 732 740
HMSAC18	950257	131	blastx.2		(AB023584) reduced expression in cancer [Homo sapiens]	dbj BAA88923.1	100%	29	919
HAPRB43	950475	132	blastx.2		(AF124522) tetraspan NET-2 [Homo sapiens]	gb AAD17317.1	100%	3	536



HCCMD55	956895	133	blastx.2	catalase [Campylobacter jejuni]	emb CAA59444.1	94%	225	115
HKADF15	960658	135	blastx.2	(AF179370) insulin- like growth factor binding protein 5 protease [Rattus norvegicus]	gb AAD52683.1 AF1 79370_1	94% 70% 32%	424 113 9	1551 499 155
HOGES55	961337	136	blastx.2	proline-rich protein [Mus musculus]	gb AAA53048.1	31% 33% 33% 33% 33% 27%	515 515 645 809 1099 1099	1117 1117 1397 1117 1452 1557
HKZAJ14	961458	137	blastx.2	(AL133051) hypothetical protein [Homo sapiens]	emb CAB61378.1	100%	219	1028
HLHAE14	962362	138	blastx.2	unknown protein. [Homo sapiens]	gb AAA88036.1	60% 38%	1969 1820	1805 1680
HBCJN16	965190	139	blastx.2	calcyphosine [Homo sapiens]	emb CAA66609.1	99%	38	346
HCGAF29	965372	140	blastx.2	(AF083217) WD repeat protein WDR3 [Homo sapiens]	gb AAD45865.1 AF0 83217_1	97% 27% 53% 34% 60% 60% 60% 46% 36% 53%	32 473 2270 2226 2269 2273 2272 2269 2226 2270	1660 940 2308 2312 2313 2317 2316 2307 2315 2314

HBAB02	967807	142	blastx.2	(AK000069) unnamed protein product [Homo sapiens]	dbj BAA90924.1	47%	1600	1665
						100%	2	1267
HOUCR01	968171	143	blastx.2	similar to D.melanogaster peroxidase(U11052) [Homo sapiens]	dbj BAA13219.1	33%	8	646
						36%	428	718
						30%	8	241
HDITG18	968454	144	blastx.2	(AB017644) ubiquitin-conjugating enzyme E2 [Homo sapiens]	dbj BAA76544.1	100%	391	1011
HBLGD30	968949	145	blastx.2	preceruloplasmin (EC 1.16.3.1) [Homo sapiens]	gb AAA51976.1	100%	1	2187
						40%	106	1512
						41%	1183	2184
HFIHK04	969387	146	blastx.2	(AK000200) unnamed protein product [Homo sapiens]	dbj BAA91005.1	94%	306	151
HE8NQ16	970046	148	blastx.2	F20D12.3 gene product [Caenorhabditis elegans]	gb AAA81672.1	38%	359	1099
						36%	1259	1891
						25%	2021	2653
						25%	974	1102
HOFMS34	973010	149	blastx	hPMSR6 [Homo sapiens]	gb AAA97460.1	59%	324	536
						66%	552	605
HOF0B11	973505	150	blastx.2	15 KD SELENOPROTEIN PRECURSOR.	sp O60613 SE15_HUMAN	95%	18	503
HTLHN94	974667	151	blastx.2	(AB012955) KIP2 [Homo sapiens]	dbj BAA33584.1	99%	444	812
HLDRT31	975754	152	blastx.2	hepatocyte growth	gb AAA50165.1	90%	91	639

				factor-like protein [Homo sapiens]			50%	100	579
							44%	100	579
							50%	346	558
HWLHW8 6	975771	153	blastx.2	epithelial glycoprotein (EGP) precursor [Homo sapiens]	gb AAA35723.1		100%	245	1186
HOFNM53	976051	154	blastx.2	(AL110276) hypothetical protein [Homo sapiens]	emb CAB53711.1		37%	498	1094
HDPSE86	976207	155	blastx	(AF086713) rasGAP- activating-like protein [Homo sapiens]	gb AAD09006.1		83%	757	1311
							91%	1	420
							96%	508	774
							83%	401	511
							30%	361	450
							42%	1	42
HHFOE18	976216	156	blastx.2	(AL117664) hypothetical protein [Homo sapiens]	emb CAB56034.1		52%	376	1275
							35%	14	139
HHFNH27	976968	157	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1		98%	26	589
							100%	3	26
HMMBZ8 1	977264	158	blastx.2	alternatively spliced product using exon 13A [Homo sapiens]	gb AAB49034.1		52%	545	369
HSLGF32	977704	159	blastx.2	(AL133063) hypothetical protein [Homo sapiens]	emb CAB61387.1		52%	2	250
HODFU73	978812	161	blastx.2	myeloid ecotropic viral integration site-1b	gb AAA85509.1		94%	371	652

HNBUA49	978998	162	blastx.2	[Mus musculus] (AF085356) putative RNA helicase [Homo sapiens]	gb AAD40191.1	97% 38%	365 130	1282 183
HVVDU73	979346	163	blastx.2	ladinin [Homo sapiens]	gb AAB58817.1	99%	53	1603
HHESX72	979468	164	blastx.2	(AK001665) unnamed protein product [Homo sapiens]	dbj BAA91821.1	96%	202	480
HOCY88	979547	165	blastx.2	(AF035299) similar to GAP binding protein p62do [Homo sapiens]	gb AAB88182.1	100%	136	939
HOGDC64	979666	166	blastx.2	kinase A anchor protein [Homo sapiens]	emb CAA66000.1	100% 40% 45%	236 1 40	769 165 204
HSIEA14	980139	167	blastx.2	(AK000385) unnamed protein product [Homo. sapiens]	dbj BAA91131.1	72% 70% 68%	613 783 667	482 673 620
HSPSY43	980269	168	blastx.2	alphaII spectrin [Rattus norvegicus]	emb CAA62350.1	100%	937	1659
HSXBDH24	981029	169	blastx.2	(AF181645) BcDNA.GH12144 [Drosophila melanogaster]	gb AAD55431.1 AF1 81645_1	44% 36% 28% 26% 31% 22% 35% 23%	301 1207 1684 1702 1609 1711 1819 1867	1263 2148 2040 2067 1896 2061 1962 2157
HOFAB61	981108	170	blastx.2	predicted using Genefinder; Similarity to E.coli guanosine-3',	emb CAB05030.1	59% 71% 50%	173 5 727	430 88 822

HCFOF82	981272	171	blastx.2	1 [Caenorhabditis elegans] (AL133558) hypothetical protein [Homo sapiens]	emb CAB63713.1	98%	2	901
HOCMT79	981309	172	blastx.2	similar to yeast Sec6p, Swiss-Prot Accession Number P32844; 1 1 norvegicus]	gb AAA85505.1	94% 96%	481 2	1413 481
HKAEI03	981319	173	blastx.2	Wiskott-Aldrich Syndrome Protein [Mus musculus]	gb AAC52556.1	35% 39% 40% 55% 34%	392 233 407 306 288	6 6 300 253 211
HOCPO31	981593	174	blastx.2	(AF015037) endooligopeptidase A related protein; EOPA related protein [Oryctolagus cuniculus]	gb AAB99905.1	79%	381	812
HAOTG88	981606	175	blastx.2	No definition line found [Escherichia coli]	gb AAC43132.1	100%	217	2
HVCAH21	981768	176	blastx.2	(AF044956) NADH:ubiquinone oxidoreductase B22 subunit [Homo sapiens]	gb AAD42057.1 AF0 44956_1	100%	80	616
HFPCCK56	981812	177	blastx.2	(AF099664) Cdc42 effector protein 4 [Homo sapiens]	gb AAD16299.1	88%	3	125

HAOSJ58	981859	178	blastx.2	(AJ271784) chromokinesin [Homo sapiens]	emb CAB75427.1	87%	24	482
HOPJT48	981862	179	blastx.2	(AF000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	95%	321	250
						91%	318	247
						95%	316	245
						100%	350	285
						100%	349	284
						100%	348	283
						100%	345	280
						100%	347	282
						100%	346	281
						100%	342	277
						100%	344	279
						100%	343	278
						100%	340	275
						100%	339	274
						100%	341	276
						100%	336	271
						100%	338	273
						100%	337	272
						100%	335	270
						100%	333	268
						100%	334	269
						100%	330	265
						100%	331	266
						100%	332	267
						100%	327	262
						100%	328	263
						100%	329	264

HCFV61	981914	180	blastx.2	(AK000541) unnamed protein product [Homo sapiens]			100%	324	259
							100%	325	260
							91%	313	242
							88%	318	241
							84%	316	239
							64%	318	217
							99%	54	1091
HOVJY54	982032	182	blastx.2	similar to cuticle collagen [Caenorhabditis elegans]	emb CAA91932.1		36%	593	156
							33%	763	578
							37%	763	635
							29%	1088	942
HE8MM52	982197	184	blastx.2	(AL023828) cDNA EST yk289g5.5 comes from this gene; cDNA EST 1 1 yk653f1.5 comes from this gene; cDNA EST EMBL:C07875 comes from th	emb CAA19455.1		48%	628	1137
							46%	121	552
HJBCC19	982465	185	blastx.2	(AK000516) unnamed protein product [Homo sapiens]	dbj BAA91222.1		99%	503	949
							90%	8	157
HODAA93	982618	186	blastx.2	(AJ224979) MTMR1 [Homo sapiens]	emb CAA12271.1		96%	63	737
							74%	698	790
HSPSI74	982764	187	blastx.2	L6 [Homo sapiens]	gb AAA36158.1		100%	100	705
HCEHZ42	983008	188	blastx.2	unknown [murine herpesvirus 68]	gb AAB66420.1		32%	2124	3170
							38%	1167	1451
							38%	1167	1451

						38%	1167	1451
						38%	1167	1451
						38%	1167	1451
						32%	2127	2414
						39%	2140	2304
						35%	94	375
						35%	94	375
						35%	94	375
						37%	116	334
						37%	116	334
						37%	116	334
						37%	116	334
						34%	620	817
						34%	620	817
						34%	620	817
						34%	620	817
						34%	620	817
						37%	7	135
						37%	7	135
						38%	1234	1422
						38%	1234	1422
						38%	1234	1422
HDPVU15	983592	189	blastx.2	replication factor C, 37-kDa subunit [Homo sapiens]	gb AAB09785.1	100%	72	686
						100%	685	954
						100%	1025	1138
						100%	1216	1308
HT5GC28	984008	190	blastx.2	alpha subunit; forms heterodimer with NC2 alpha/Dr1 [Homo sapiens]	emb CAA65358.1	60%	34	423
						58%	248	421



HDABW5 0	984168	191	blastx.2	t-complex polypeptide 1 (AA 1-556) [Homo sapiens]	emb CAA37064.1	100%	185	451
HAQBH11	985043	192	blastx.2	(AJ243177) Xenopus RPA interacting protein alpha [Xenopus laevis]	emb CAB45690.1	42% 46% 46% 28% 35%	393 110 238 244 247	626 244 393 369 336
HMVAW4 2	985280	193	blastx.2	extensin-like protein [Zea mays]	emb CAA84230.1	28%	960	10
HAGDF03	985323	194	blastx.2	neuromedin U [Homo sapiens]	emb CAA53619.1	100%	169	690
HOPKI29	985401	195	blastx.2	(AF087135) F1FO-type ATPase subunit d [Homo sapiens]	gb AAC36338.1	100%	65	547
HAJCA11	985580	196	blastx.2	GTBP-ALT [Homo sapiens]	dbj BAA23673.1	98% 97%	394 2	1293 391
HWAAH1 1	986078	197	blastx.2	proteolipid protein 2 [Mus musculus]	dbj BAA83500.1	31%	134	511
HSAM143	986158	198	blastx.2	(AF111423) chromosome condensation protein XCAP-G [Xenopus laevis]	gb AAD09819.1	54% 53%	14 14	1471 1387
HNFJH73	986165	199	blastx.2	erm [Homo sapiens]	emb CAA65246.1	100%	1	591
HNTCH03	986328	200	blastx.2	put. ORF [Homo sapiens]	emb CAA39297.1	48% 70%	103 651	363 680
HSUAA20	986744	201	blastx.2	replication protein A,	gb AAA36584.1	100%	2	1312

					70-kDa subunit [Homo sapiens]			100%	1315	1347
HSPAD08	986767	202	blastx.2		(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens]	emb CAB37641.1		100%	905	1054
HFKBA32	987018	203	blastx.2		(AL121740) hypothetical protein [Homo sapiens]	emb CAB57330.1		76% 83%	256 540	1092 743
HHFLU49	987071	204	blastx.2		(AF068749) sphingosine kinase [Mus musculus]	gb AAC61698.1		46%	278	718
HOENX16	987112	205	blastx.2		helix-loop-helix protein [Homo sapiens]	emb CAA69255.1		100%	368	850
HTFOW71	987165	206	blastx.2		(AF121862) sorting nexin 13 [Homo sapiens]	gb AAD27835.1 AF1 21862_1		96% 88%	38 3	400 53
HTTAG03	987262	207	blastx.2		SPIN protein [Homo sapiens]	emb CAA75163.1		94% 47% 41% 44% 36% 33% 37% 61%	57 81 663 492 801 516 195 1228	1289 476 1238 857 1061 812 428 1278

HNTNN89	987577	208	blastx.2	elongation factor 2 [Homo sapiens]	emb CAA35829.1	98%	110	547
HRADQ96	987636	209	blastx.2	(AF134726) NG23 [Homo sapiens]	gb AAD21821.1	77% 100%	543 2	713 115
HLDCJ16	987808	210	blastx.2	3-oxoacyl-[acyl-carrier- protein] reductase (EC 1.1.1.100). [Escherichia coli]	dbj BAA35901.1	96% 100%	303 6	398 29
HCOPH23	987900	211	blastx.2	nucleoporin-like protein [Homo sapiens]	emb CAA61667.1	39%	159	761
HEEAQ78	988159	212	blastx.2	TBX2 [Homo sapiens]	gb AAA73861.1	99% 98% 33% 29% 29%	164 1 12 206 260	475 165 191 394 403
HOFNY16	988363	213	blastx.2	(AL110239) hypothetical protein [Homo sapiens]	emb CAB53690.1	99% 100%	242 144	853 236
HSLCX45	988441	214	blastx.2	(AB006572) RPB5 meidating protein [Homo sapiens]	dbj BAA34781.1	98%	106	1404
HLMBJ09	988499	215	blastx.2	cDNA EST yk575f9.3 comes from this gene [Caenorhabditis elegans]	emb CAA94859.1	39% 34%	270 496	491 591
HOVEF60	988526	216	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	75% 36%	377 11	598 298
HOGDR72	988536	217	blastx.2	RNA polymerase II transcription factor SIII	gb AAA75522.1	100%	62	415

HOCMF20	988556	218	blastx.2	p18 subunit [Homo sapiens]	emb CAA71143.1	99%	1	366
HAMHH2 6	988737	219	blastx.2	MHC Class I region proline rich protein [Homo sapiens]	gb AAB40147.1	98%	429	728
HHFOX44	988904	220	blastx.2	binding protein [Homo sapiens]	emb CAA00862.1	99% 52% 56% 28% 36% 31% 45%	153 308 804 67 88 637 48	587 907 956 222 318 789 107
HPWDE54	989029	221	blastx.2	(AJ252060) TRABID protein [Homo sapiens]	emb CAB64449.1	97%	1	2127
HNOAX46	989183	222	blastx.2	Berg36 [Homo sapiens]	emb CAA67781.1	100%	49	789
HCQCB28	989280	223	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	60% 77% 57%	471 301 1148	292 167 1107
HOOJB32	989321	224	blastx.2	(AB007619) EBAG9 [Homo sapiens]	dbj BAA22572.1	100%	535	1173
HMWJJ35	989323	225	blastx.2	Leu2 [Homo sapiens]	emb CAA75516.1	93% 100% 72%	312 551 260	410 607 346
HHFIA95	989396	226	blastx.2	(AB002533) Qip1 [Homo sapiens]	dbj BAA19546.1	92% 24% 47% 35%	120 279 1 5	1178 974 216 121

HSPSH36	989607	227	blastx.2	transcription factor ILF [Homo sapiens]	emb CAA43200.1	94%	77	247
HAAAA25	989952	228	blastx.2	p67 myc protein [Homo sapiens]	dbj BAA01374.2	100%	250	282
HTMJ16	990060	229	blastx.2	(AF151075) HSPC241 [Homo sapiens]	gb AAF36161.1 AF1 51075.1	100%	100	660
HWLAB90	990146	230	blastx.2	(AF067817) VAV-3 protein [Homo sapiens]	gb AAC79695.1	97%	361	618
HOSED43	990184	231	blastx.2	(AK001851) unnamed protein product [Homo sapiens]	dbj BAA91941.1	98%	2	652
						89%	622	813
HNODF50	990254	232	blastx.2	(AF222742) synaptic glycoprotein SC2 [Homo sapiens]	gb AAF32373.1 AF2 22742.1	100%	2	790
HLWBV17	990255	233	blastx.2	(AF222742) synaptic glycoprotein SC2 [Homo sapiens]	gb AAF32373.1 AF2 22742.1	100%	616	1155
						93%	187	528
						100%	116	181
						100%	282	542
						78%	123	206
						57%	26	88
HOCQH66	990435	234	blastx.2	collagen type VI, alpha 3 chain [Homo sapiens]	emb CAA36267.1	98%	43	2745
						43%	40	330
						40%	40	330
						45%	43	327
						46%	49	330
						44%	43	327
						47%	46	330
						48%	46	330
						45%	46	330
						46%	46	330
						43%	49	339
						44%	49	327
						41%	43	327

[illegible]

HELGN26	991014	241	blastx.2	(AF123653) FEZ1 [Homo sapiens]	gb AAD23834.1 AF1 23653_1	47%	192	902
						52%	32	181
						38%	171	470
HODCU15	991048	242	blastx.2	(AF213822) hypothetical protein [Zymomonas mobilis]	gb AAF23786.1 AF2 13822_1	42%	1104	1550
						56%	1552	1710
						27%	1747	1929
HOGDI51	991268	243	blastx.2	(AF007872) torsinB [Homo sapiens]	gb AAC51733.1	100%	238	492
						92%	607	873
						69%	803	940
HLWAF02	991516	244	blastx.2	(AK001371) unnamed protein product [Homo sapiens]	dbj BAA91655.1	100%	192	449
HRKPA16	991654	245	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	76%	263	24
HPDQX94	991761	246	blastx.2	microsomal glutathione S-transferase 2 [Homo sapiens]	gb AAC51768.1	100%	210	650
HEAAY09	992678	247	blastx.2	TSC-22 [Homo sapiens]	dbj BAA07598.1	96%	40	333
HPDRH78	992780	248	blastx.2	(AK000474) unnamed protein product [Homo sapiens]	dbj BAA91189.1	100%	598	903
						79%	933	1079
HODFO57	992973	250	blastx.2	(AF176524) F-box protein FBL10 [Mus musculus]	gb AAF09133.1	67%	8	811
HOCpz44	993380	251	blastx.2	(AF151075) HSPC241 [Homo sapiens]	gb AAF36161.1 AF1 51075_1	99%	157	540
HPAMU38	993403	252	blastx.2	cDNA EST	emb CAB04720.1	48%	111	407

					yk269g12.5 comes from this gene; cDNA EST EMBL:D27364.1 comes from this gene; cDNA EST EMBL:D36272 comes fr			30%	450 20	803 91
HNGGK47	993602	253	blastx.2	(AF126163) HHLA3 protein [Homo sapiens]	gb AAD33288.1 AF126163.1		78%	277		372
HODGN51	993754	254	blastx.2	putative p150 [Homo sapiens]	gb AAC51261.1		64% 65% 48% 69%	124 77 3 545		549 205 134 613
HODCT60	993806	255	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1		56% 50%	239 624		382 671
HAQBV81	993918	256	blastx.2	putative [Rattus norvegicus]	emb CAA52297.1		43%	3		695
HDTGF49	993931	257	blastx.2	(AK002081) unnamed protein product [Homo sapiens]	dbj BAA92074.1		87%	1073		1531
HOGBN62	994134	258	blastx.2	(AF132952) CGI-18 protein [Homo sapiens]	gb AAD27727.1 AF132952_1		95% 95% 43%	155 12 421		295 155 558
HSKGR42	994234	259	blastx.2	(AK000741) unnamed protein product [Homo sapiens]	dbj BAA91354.1		73% 96% 56% 51% 34% 28%	147 1 412 413 291 273		536 153 528 499 404 377



HOEBQ85	994356	260	blastx.2	(AL117435) hypothetical protein [Homo sapiens]	emb CAB55923.1	28% 32%	316 291	468 437
HOPJG01	994536	261	blastx.2	creatine kinase B [Homo sapiens]	emb CAA33389.1	100%	1	1134
HKBK06	994596	262	blastx.2	Cks1 protein homologue [Homo sapiens]	emb CAA38702.1	100% 81%	231 67	410 144
HKGCN61	994664	263	blastx.2	NifU-like protein [Homo sapiens]	gb AAC50885.1	100%	169	531
HFOYT37	994776	265	blastx.2	ribosomal protein [Homo sapiens]	dbj BAA03400.1	100%	85	513
HOFNL18	994874	266	blastx.2	(AL031432) dJ465N24.1 (PUTATIVE novel protein similar to predicted yeast and worm proteins) [Homo sapiens]	emb CAB37991.1	84%	43	339
HOFNT57	994954	267	blastx.2	phosphate cyclase [Homo sapiens]	emb CAA72364.1	98% 93%	273 124	1157 270
HCBMT45	994993	268	blastx.2	lin-10 protein homolog [Rattus norvegicus]	gb AAB51383.1	96%	46	1311

HATDZ56	995200	269	blastx.2	(AL031668) dJ64K7.2 (eukaryotic translation initiation factor 2, subunit 2 (beta, 38kD )) [Homo sapiens]	emb CAB43741.1	100%	156	1154
HOCQI44	995229	270	blastx.2	(AL050348) dJ447F3.2 (ubiquitin-conjugating enzyme E2 H10) [Homo sapiens]	emb CAB66118.1	92%	8	520
HNOJG43	995562	271	blastx.2	alpha 4 protein [Homo sapiens]	emb CAA70119.1	99%	73	981
HSPSB95	995590	272	blastx.2	proteasome subunit HsN3 [Homo sapiens]	dbj BAA05647.1	99%	47	838
HCORG29	995806	273	blastx.2	SRp30c [Homo sapiens]	gb AAA93069.1	100%	100	762
HCRNO02	995894	274	blastx.2	N8 GENE PRODUCT LONG ISOFORM, N8L PROTEIN=D52 1 HK4A1]	sp G1488414 G14884 14	74% 63%	33 2	149 34
HCBOI79	996247	275	blastx.2	(AK000857) unnamed protein product [Homo sapiens]	dbj BAA91400.1	80% 100%	99 419	506 637
HVCAB73	996337	276	blastx.2	NF45 protein [Homo sapiens]	gb AAA20993.1	94% 70%	90 1175	1307 1297
HSDJH04	996619	277	blastx.2	RNA polymerase II subunit [Homo sapiens]	gb AAA91459.1	100%	219	419
HSOAN18	996804	278	blastx.2	(AB030654) AP-4 clathrin adaptor-related complex sigma4 subunit [Homo sapiens]	dbj BAA82970.1	100%	1	222

HHEHF49	996874	279	blastx.2	L-lactate permease [Escherichia coli]	gb AAA03583.1	91%	770	222
HCHCF36	996903	280	blastx.2	rac protein kinase-beta [Homo sapiens]	gb AAA36585.1	96%	1	456
HAHCK58	997127	281	blastx.2	(AK001138) unnamed protein product [Homo sapiens]	dbj BAA91517.1	98%	1	228
HETIJ06	997165	282	blastx.2	(AF152097) CGI-05 protein [Homo sapiens]	gb AAD34147.1 AF1 52097_1	97%	218	352
HAPOE30	997595	283	blastx.2	nuclear protein SA-1 [Homo sapiens]	emb CAA99731.1	100% 88%	244 11	759 244
HRGDC33	997862	284	blastx.2	C13F10.7 gene product [Caenorhabditis elegans]	gb AAC47967.1	34% 44%	301 301	735 648
HMTMB9 1	997873	285	blastx.2	(AC004858) U1 small ribonucleoprotein 1SNRP homolog; match to PID:g4050087 [Homo sapiens]	gb AAF19255.1 AC0 04858_3	100% 41%	1037 487	1174 555
HFAAD07	998059	286	blastx.2	(AJ132948) rfg7 protein [Homo sapiens]	emb CAB55313.1	97% 97%	274 32	957 298
HE8TG67	998517	287	blastx.2	product is related to clathrin-associated protein. [Homo sapiens]	dbj BAA09762.1	97% 97%	1226 502	1360 618
HACNC39	998533	288	blastx.2	weak similarity to Arabidopsis thaliana ubiquitin-like protein 8 [Caenorhabditis elegans]	gb AAB42266.1	80%	162	380

HCOQP78	998901	289	blastx.2	(AB008927) neuropsin type2 [Homo sapiens]	dbj BAA82666.1	100%	75	989
HCGMA67	998905	290	blastx.2	rab8 [Canis familiaris]	emb CAB56776.1	100%	47	664
HSKHK19	998968	291	blastx.2	(AC004890) similar to HUB1; similar to BAA24380 (PID:g2789430) [Homo sapiens]	gb AAD45825.1 AC004890_2	98% 38% 54% 70%	2 566 1095 558	466 721 1160 587
HAGGR59	999124	292	blastx.2	histone H1-1 [Volvox carteri]	gb AAA74723.1	36%	270	596
HOPKS83	999148	293	blastx.2	(AF026124) schwannoma-associated protein [Mus musculus]	gb AAC73069.1	93%	425	1894
HE8CY70	999157	294	blastx.2	SEP PROTEIN (FRAGMENT).	sp Q15352 Q15352	100% 92% 66% 48%	691 32 3 635	1368 691 128 706
HPCTI53	999243	295	blastx.2	(AJ250562) tetraspanin protein [Homo sapiens]	emb CAB65594.1	88% 100%	34 474	546 779
HOPKN50	999313	296	blastx.2	(AF017790) retinoblastoma-associated protein HEC [Homo sapiens]	gb AAB80726.1	95%	152	1702
HAPAI17	999778	297	blastx.2	(AK001832) unnamed protein product [Homo sapiens]	dbj BAA91931.1	97%	2	115
HHAUV59	999808	298	blastx.2	p116Rip [Mus musculus]	gb AAB18198.1	79% 67% 21%	95 547 1454	1903 801 1669

HTXLL31	1000315	299	blastx.2	(AK001770) unnamed protein product [Homo sapiens]	dbj BAA91897.1	36%	663	992
HDPUH64	1000339	300	blastx.2	CRAG protein [Drosophila melanogaster]	emb CAA76938.1	42%	8	598
HTTHS93	1000424	301	blastx.2	(ALJ17183) conserved hypothetical protein [Schizosaccharomyces pombe]	emb CAB54870.1	66%	525	692
HMVCG79	1000582	302	blastx.2	(AJ387747) stalin [Homo sapiens]	emb CAB62540.1	65%	475	534
HODHK20	1000669	303	blastx.2	(AF176555) A-kinase anchoring protein 220 [Homo sapiens]	gb AAF07045.1 AF176555_1	25%	55	720
HCHMO53	1000875	304	blastx.2	(AK000462) unnamed protein product [Homo sapiens]	dbj BAA91181.1	36%	755	994
HFKKG84	1001066	305	blastx.2	(AF047002) transcriptional coactivator ALY [Homo sapiens]	gb AAD09608.1	100%	3	854
HOFMT20	1001333	306	blastx.2	(AK000541) unnamed protein product [Homo sapiens]	dbj BAA91241.1	94%	76	627
HPAMB04	1001695	307	blastx.2	17-kDa protein [Homo sapiens]	gb AAA36038.1	41%	296	556
HODEK48	1001901	308	blastx.2	pol [porcine endogenous retrovirus]	emb CAA76582.1	98%	1	666
						48%	40	237
						99%	127	621
						41%	398	721
						33%	25	423

HVVCB28	1001954	309	blastx.2	S19 ribosomal protein [Homo sapiens]	gb AAA89070.1	100%	373	807
HCOOS01	1002071	310	blastx.2	proliferation associated gene (pag) [Homo sapiens]	emb CAA48137.1	100%	105	701
HDACA35	1002096	311	blastx.2	(AK001496) unnamed protein product [Homo sapiens]	dbj BAA91724.1	73%	23	652
HOVDG59	1002328	312	blastx.2	(AK001610) unnamed protein product [Homo sapiens]	dbj BAA91787.1	100% 28%	13 40	639 588
HTJAD78	1002459	313	blastx.2	immunoglobulin gamma-2 heavy chain [Homo sapiens]	emb CAB58438.1	98%	64	1041
HCDCF69	1002468	314	blastx.2	lysyl hydroxylase [Homo sapiens]	gb AAA60116.1	98%	353	508
HPTTW90	1002479	315	blastx.2	Huntington's Disease (HD) gene [Homo sapiens]	emb CAA93701.1	99%	3	356
HSUBG36	1002492	316	blastx.2	snRNP E protein (AA 1-92) [Homo sapiens]	emb CAA31007.1	100%	67	342
HODFU72	1002527	317	blastx.2	(AB022660) SET- binding protein (SEB) [Homo sapiens]	dbj BAA82444.1	32%	57	689
HCNSF57	1002545	318	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA40940.1	96%	134	826
HODJU13	1002546	319	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	85%	2	106

HODIL25	1002551	320	blastx.2	nuclear protein, NP220 [Homo sapiens]	dbj BAA11748.1	99%	207	1556
HUVHS56	1002563	321	blastx.2	(AF097441) phenylalanine-tRNA synthetase [Homo sapiens]	gb AAC83802.1	100%	174	755
HPMJQ18	1002565	322	blastx.2	unnamed protein product [unidentified]	emb CAB69299.1	91% 53%	407 209	823 247
HLHCI46	1002591	323	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	100%	153	923
HAOSD18	1002607	324	blastx.2	homologue to elongation factor 1- gamma from A.salina [Homo sapiens]	emb CAA45089.1	100%	98	1408
HACNG47	1002610	325	blastx.2	ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	100%	86	361
HOPJX95	1002729	326	blastx.2	RPS16 [Homo sapiens]	gb AAA60583.1	100%	244	681
HSCLR05	1002807	327	blastx.2	HKR-T1 [Homo sapiens]	gb AAB24264.2	58% 42% 51% 41%	3 3 3 591	176 281 215 659
HVVAO74	1002811	328	blastx.2	clathrin light-chain A [Homo sapiens]	gb AA59505.1	100%	178	831
HVVBK18	1003155	330	blastx.2	proteasome subunit HsC7-I [Homo sapiens]	dbj BAA05646.1	100%	323	925
HSCLM55	1003224	332	blastx.2	(AC004983) similar to PID:g3877944 [Homo sapiens]	gb AAD15546.1	100%	28	768

HETJU23	1003706	333	blastx.2	(AL133630) hypothetical protein [Homo sapiens]	emb CAB63754.1	99%	881	1477
						99%	504	881
						73%	64	513
						100%	373	507
						28%	878	1084
						26%	1121	1327
						35%	343	459
HNOKB73	1004480	334	blastx.2	(AF026692) frpHE [Homo sapiens]	gb AAC04617.1	93%	18	515
HODFB06	1004583	335	blastx.2	(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1	41%	362	760
						51%	3	143
						63%	135	191
						51%	265	360
						70%	200	259
HODJA76	1004619	336	blastx.2	(AF113685) PRO0974 [Homo sapiens]	gb AAF29584.1 AF1 13685 1	56%	171	293
HODJY60	1004625	337	blastx.2	putative [Homo sapiens]	gb AAC37567.1	38%	277	453
						100%	141	683
HODEF10	1004627	338	blastx.2	(AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	69%	10	135
HODFB03	1004631	339	blastx.2	DNA primase (p58 subunit) [Homo sapiens]	emb CAA52378.1	90%	1	789
HPMLN08	1004632	340	blastx.2	(AF027728) kinesin- related protein [Xenopus laevis]	gb AAC60300.1	25%	518	1165
						26%	135	533
						24%	524	1051
						23%	524	1060
HODEH08	1004633	341	blastx.2	(AK001410) unnamed protein product [Homo sapiens]	dbj BAA91675.1	87%	22	369



HEGBF25	1004635	342	blastx.2	(AF069736) PCAF associated factor 65 beta [Homo sapiens]	gb AAC39906.1	98%	165	758
HODJB51	1004643	343	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	52%	405	142
HODEC38	1004648	344	blastx.2	(AJ010089) GANP protein [Homo sapiens]	emb CAB52687.1	97% 52% 62% 87%	68 1993 2055 2030	208 2175 2150 2053
HODIQ24	1004660	345	blastx.2	(AK001892) unnamed protein product [Homo sapiens]	dbj BAA91965.1	100%	3	236
HVVDD56	1004887	346	blastx.2	gpStat50 [Homo sapiens]	emb CAA57684.1	97% 66%	435 1204	1238 1245
HTHDV01	1004950	347	blastx.2	c-fos protein [Homo sapiens]	gb AAA52471.1	100%	153	1292
HVVDJ95	1005153	348	blastx.2	Ral guanine nucleotide dissociation stimulator [Homo sapiens]	gb AAA52360.1	80%	185	400
HODIY29	1005236	349	blastx.2	DNA-binding protein 5 - human	pir S26650 S26650	97% 89% 57% 59% 53% 52% 58% 48% 43% 65%	1 13 1 4 19 4 4 4 1 4	963 963 453 453 453 444 408 453 453 276

[illegible]

				sapiens]				47%	158	403
HOOJT92	1006215	358	blastx.2	(AC007055) unknown [Homo sapiens]				37%	105	377
HNQRE03	1006250	359	blastx.2	(AK000927) unnamed protein product [Homo sapiens]				27%	666	773
								34%	323	418
								97%	44	172
								100%	4	669
HPCTS21	1006317	360	blastx.2	(AE001373) predicted secreted protein [Plasmodium falciparum]				27%	237	1049
								22%	177	1187
HFATL31	1006399	361	blastx.2	light chain 3 subunit of microtubule-associated proteins 1A and 1B [Rattus norvegicus]				82%	146	505
HE2JE77	1006445	362	blastx.2	(AF078848) BUP [Homo sapiens]				100%	2	328
HCBNX87	1006470	363	blastx.2	(AL137735) hypothetical protein [Homo sapiens]				99%	1	420
HNTD168	1006483	364	blastx.2	l(3)mbt protein homolog [Homo sapiens]				64%	3	626
								41%	628	1410
								44%	3	533
								40%	201	611

HTRAA05	1006512	365	blastx.2	heat shock protein [Drosophila melanogaster]	emb CAA30276.1	60% 55% 49% 28%	631 6 628 459	840 221 840 614
HMTAL96	1006635	366	blastx.2	ras-like protein [Homo sapiens]	gb AAA36547.1	98%	90	515
HDTP21	1006858	367	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942_1	67% 73%	17 126	136 215
HISEQ81	1006943	368	blastx.2	(AF009668) polyprotein [multiple sclerosis associated retrovirus]	gb AAB66528.1	83% 70% 87%	247 435 514	17 235 395
HODFH02	1006953	369	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	74% 52%	346 426	438 488
HOCPP18	1007230	370	blastx.2	(AF150100) small zinc finger-like protein [Homo sapiens]	gb AAD40006.1 AF1 50100_1	100%	305	571
HODFP91	1007941	371	blastx.2	SpZ12-1 [Strongylocentrotus purpuratus]	gb AAA85705.1	27%	69	806
H6EDU06	1007976	372	blastx.2	(AF151894) CGI-136 protein [Homo sapiens]	gb AAD34131.1 AF1 51894_1	99%	75	449
HPCRD26	1008013	373	blastx.2	predicted using Genefinder; Similarity to Yeast mitochondrial 1 1 yk432a4.3 comes	emb CAB02879.1	35% 44%	423 1220	1229 1294

HSIEH63	1008027	374	blastx.2	from this gene; cDNA EST yk432a4 (AF007791) secreted cement gland protein XAG-2 homolog [Homo sapiens]	gb AAC77358.1	65%	87	554
HPASD51	1008071	375	blastx.2	PDI (E.C.5.3.4.1) [Bos taurus]	gb AAA30690.1	33%	81	752
HCOQH27	1008154	376	blastx.2	IEF SSP 9502 [Homo sapiens]	gb AAA65201.1	100%	131	1315
HCOPZ14	1008179	378	blastx.2	guanylate kinase [Homo sapiens]	gb AAC37598.1	84%	889	1023
HODEC78	1008299	379	blastx.2	bicaudal-D [Homo sapiens]	gb AAB94805.1	94%	379	1230
						97%	1203	1343
						40%	319	744
						72%	1351	1470
						20%	328	1188
						35%	1191	1343
						21%	328	792
						25%	856	1056
						39%	328	396
HODEF29	1008304	380	blastx.2	(AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	80%	38	133
						22%	202	330
HODEF78	1008314	382	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	93%	3	101
HODEL83	1008324	383	blastx.2	pol gene protein; Xxx [Homo sapiens]	gb AAA88026.1	76%	132	407
HHPHSH76	1008325	384	blastx.2	(AF019386) heparan sulfate 3-O- sulfotransferase-1	gb AAB84388.1	100%	286	1206

					precursor [Homo sapiens]				
HGBE52	1008326	385	blastx.2		T2 [Mus musculus]	emb CAA48048.1	29% 33%	782 661	408 407
HBQAB30	1008327	386	blastx.2		alternatively spliced [Homo sapiens]	gb AAA35654.1	93%	24	737
HLHCB31	1008332	387	blastx.2		matrix metalloproteinase, MT2MMP [Homo sapiens]	dbj BAA13071.1	97%	1	558
HPFDV51	1008335	388	blastx.2		(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	66% 69%	62 3	217 71
HODEG13	1008337	390	blastx.2		unknown protein [Homo sapiens]	gb AAA88038.1	65% 66% 67%	2 183 341	214 341 478
HPFK16	1008345	391	blastx.2		Kruppel-related DNA-binding protein [Homo sapiens]	gb AAA52689.1	79% 65%	166 387	405 470
HARAL81	1008349	392	blastx.2		(AF090894) PRO0113 [Homo sapiens]	gb AAF24018.1 AF090894 1	55% 55%	217 323	104 216
HFTAU42	1008350	393	blastx.2		(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	59% 55% 54%	1282 1115 1113	1106 990 1051
HETDA81	1008358	394	blastx.2		IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	88% 42%	3 221	110 262

HODEI92	1008359	395	blastx.2	(AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]	gb AAC28019.1	45%	1	306
HODEG86	1008379	397	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	55% 51%	236 424	400 546
HODFA57	1008396	398	blastx.2	retrovirus-related polyprotein pseudogene - human 1	pir A26718 A26718	36% 58%	102 17	596 67
HODFB31	1008401	399	blastx.2	(AL021768) ATP binding protein-like [Arabidopsis thaliana]	emb CAA16931.1	52%	1	261
HTEMP79	1008406	400	blastx.2	(AJ223782) CDC10 [Mus musculus]	emb CAA11547.1	95% 51% 94%	374 136 625	628 375 678
HODEI59	1008423	401	blastx.2	(AJ237734) ribophorin II [Homo sapiens]	emb CAB54801.1	100% 100% 97% 39% 30%	296 1404 1270 1876 1145	1273 1859 1404 1959 1279
HODEF94	1008429	402	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	100%	2	85
HPFCZ53	1008445	403	blastx.2	(AF176818) transcription factor AP-2 [Silurana tropicalis]	gb AAD53289.1 AF176818_1	79% 93%	296 3	769 296
HWACN7 1	1008764	404	blastx.2	(AF105261) natural killer cell receptor 2B4 [Homo sapiens]	gb AAD32538.1 AF105261_1	100%	174	1268
HOFMU69	1009017	405	blastx.2	(AF077038) unc-50	gb AAD27771.1 AF0	97%	375	1151

						related protein homolog [Homo sapiens]	77038_1			
HETBR71	1009343	407	blastx.2			(AL049610) dJ1055C14.1 (transcription elongation factor A (SII)-like 1) [Homo sapiens]	emb CAB55700.1	99%	182	658
HE2ES17	1009349	408	blastx.2			CDV-IR protein [Mus musculus]	emb CAA71519.1	89%	3	914
HELM06	1009362	409	blastx.2			pre-mRNA splicing factor [Homo sapiens]	gb AAA36649.1	85%	56	349
HE2ES61	1009388	411	blastx.2			(AC005034) gc-rich sequence dna-binding factor [Homo sapiens]	gb AAC82536.1	100%	555	427
HE2SO43	1009398	412	blastx.2			protein Htf9C [Mus musculus]	emb CAA39515.1	74%	73	390
HLHCI07	1009403	413	blastx.2			(AL031985) dJ228H13.1 (similar to Ribosomal protein L21e) 1	emb CAB46381.1	75%	127	8
HTTBR65	1009414	414	blastx.2			E1A-F [Homo sapiens]	dbj BAA02234.1	100%	55	231
HPFCV71	1009453	415	blastx.2			(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	60%	449	622
HCABR46	1009479	416	blastx.2			BST-2 [Homo sapiens]	dbj BAA05679.1	88%	127	423
HCRCB80	1009482	417	blastx.2			OTK27 [Homo sapiens]	dbj BAA23363.1	100%	96	479
HPMLW78	1009833	418	blastx.2			E2A/PRL fusion	gb AAA36764.1	99%	1	606



HODJX27	1009854	420	blastx.2	protein [Homo sapiens] (AJ005324) glutamate permease [synthetic construct]	emb CAA06471.1	90%	1	123
HODJV85	1009857	421	blastx.2	ribosomal protein [Homo sapiens]	gb AAA36589.1	77%	366	205
HOOJO38	1009918	422	blastx.2	ribosomal protein L14 [Homo sapiens]	dbj BAA13443.1	35%	505	416
HAOSI69	1009949	423	blastx.2	bcl-1 [Homo sapiens]	gb AAA58392.1	98%	1	603
HSDIY67	1010157	424	blastx.2	hypoxanthine (guanine) phosphoribosyltransfer ase [Cricetulus longicaudatus]	emb CAA42198.1	100%	271	1155
HSDZM65	1010299	425	blastx.2	(AJ010953) putative Ca2+-transporting ATPase [Homo sapiens]	emb CAA09425.1	69%	60	689
HPDOC39	1010400	426	blastx.2	(AB009282) cytochrome b5 [Homo sapiens]	dbj BAA23735.1	100%	2	337
HE2PS15	1010525	427	blastx.2	(AF054175) mitochondrial proteolipid 68MP homolog [Homo sapiens]	gb AAC39909.1	99%	171	608
HTTKH22	1010596	428	blastx.2	weak similarity to	emb CAA86663.1	100%	63	236
						38%	887	1435

					microtubule associated proteins; cDNA EST 1 1 EMBL:D37339 comes from this gene; cDNA EST EMBL:D6742				32% 27%	1442 692	1561 949
HNOJG33	1010698	429	blastx.2	SAS [Homo sapiens]	gb AAC39524.1				98% 68% 100%	590 1203 1246	1207 1274 1278
HPDVK48	1011090	430	blastx.2	AZ-1 [Mus musculus]	dbj BAA19002.1				82% 77% 82% 70% 23% 23% 34% 25% 29% 26% 27% 27% 31% 19% 27% 27% 30% 26% 27% 22% 33%	236 1100 735 1 200 1100 753 203 1148 1160 284 1091 747 302 750 738 747 239 660 747 750	730 1630 1100 243 775 1603 1103 769 1612 1612 775 1600 1091 709 1085 1094 1097 727 1088 1085 1007

HNORJ10	1011186	431	blastx.2	hypoxia-inducible factor 1 alpha [Homo sapiens]	gb AAC50152.1	20% 23% 25% 22% 27% 28% 42% 32% 31% 23% 25% 24%	780 735 305 750 413 413 151 747 106 401 533 97	1331 1061 691 1106 730 730 249 938 246 673 706 273
HPDRG92	1011209	432	blastx.2	2-oxoglutarate dehydrogenase precursor [Homo sapiens]	dbj BAA01393.1	82% 73% 35%	7 237 1	234 326 60
HOEMQ81	1011303	433	blastx.2	unnamed protein product [Bos taurus]	emb CAA71771.1	66% 66%	152 97	541 141
HOFNF27	1011315	434	blastx.2	coxackie and adenovirus receptor protein [Homo sapiens]	emb CAA68868.1	89%	60	623
HOFND52	1011316	435	blastx.2	interferon alpha /beta receptor [Homo sapiens]	emb CAA61914.1	43% 44%	240 59	533 205
HOFNL96	1011321	436	blastx.2	GM2-activator protein [Homo sapiens]	emb CAA43408.1	49% 43%	72 28	551 123
HOFNF53	1011332	437	blastx.2	(AF039584) decay	gb AAC77439.1	46%	62	883

					accelerating factor soluble-form precursor; CD55 [Rattus norvegicus]			41%	1155	1706
HOFMU61	1011360	438	blastx.2		(AJ009698) embigin protein [Rattus norvegicus]	emb CAA08796.1		60%	377	1249
HOFOF35	1011499	439	blastx.2		(AF061738) leucine aminopeptidase [Homo sapiens]	gb AAD17527.1		86%	88	582
								88%	602	736
								82%	20	88
								25%	52	450
								90%	576	605
HULFU37	1011537	440	blastx.2		midkine [Homo sapiens]	dbj BAA01457.1		100%	124	552
HOFME75	1011607	441	blastx.2		collagen binding protein 2 [Homo sapiens]	dbj BAA11829.1		93%	224	970
HOPKO74	1011608	442	blastx.2		collagen binding protein 2 [Homo sapiens]	dbj BAA11829.1		99%	229	1482
HCBBA51	1011755	443	blastx.2		(AF077045) ATP synthase epsilon chain [Homo sapiens]	gb AAD27778.1 AF0 77045_1		100%	114	266
HDHEB13	1011773	444	blastx.2		type X collagen [Bos taurus]	emb CAA37624.1		42%	202	942
								42%	235	942
								52%	229	534
								49%	229	537
								50%	202	537
								49%	232	549
								47%	235	537

HDTMG36	1011821	445	blastx.2	(AJ271158) DAPI protein [Rattus norvegicus]	emb CAB71156.1	91%	75	248
HVVCJ38	1011830	446	blastx.2	CLC-7 chloride channel protein [Homo sapiens]	emb CAA91556.1	100%	20	817
HPAMY22	1011840	447	blastx.2	scleraxis=basic helix- loop-helix transcription factor [mice, embryos,	gb AAB34266.1	79%	4	180

					Peptide, 207 aa] [Mus sp.]					
HE9CP86	1011847	448	blastx.2		(AF161499) HSPC150 [Homo sapiens]	gb AAF29114.1 AF161499_1	100%	137		727
HPDOU46	1011883	449	blastx.2		(AF117582) calyphosine-like protein [Manduca sexta]	gb AAF16704.1 AF117582_1	52%	72		692
HFCDW73	1011901	450	blastx.2		(AK000376) unnamed protein product [Homo sapiens]	dbj BAA91124.1	94%	6		425
HOVEB13	1011919	451	blastx.2		(AL117452) hypothetical protein [Homo sapiens]	emb CAB55934.1	99%	96		905
HPAMS93	1011948	452	blastx.2		TB1 [Homo sapiens]	gb AAA03587.1	97%	125		1105
HCRBN71	1011966	453	blastx.2		unknown [Saccharomyces cerevisiae]	gb AAA79999.1	40%	64		420
HCRNC60	1012005	454	blastx.2		tropomyosin [Homo sapiens]	gb AAA36771.1	81%	769		1236
							91%	1202		1519
							31%	796		1245
							28%	766		1257
							27%	766		1218
							24%	925		1212
							22%	1238		1459
HSPSJ24	1012064	455	blastx.2		IFN-alpha responsive transcription factor [Homo sapiens]	gb AAA58687.1	100%	392		925
HOVDZ22	1012136	457	blastx.2		unnamed protein product [unidentified]	emb CAB69195.1	89%	2		82

HCONM62	1012454	460	blastx.2	100 kDa coactivator [Homo sapiens]	gb AAA80488.1	97% 29%	5 2	1306 646
HOGU69	1012459	461	blastx.2	TB2 [Homo sapiens]	gb AAA66351.1	99%	101	691
HVVBD93	1012469	462	blastx.2	(AK001339) unnamed protein product [Homo sapiens]	dbj BAA91635.1	33% 27%	23 601	382 852
HCOMV86	1012482	463	blastx.2	DC classII histocompatibility antigen alpha-chain [Homo sapiens]	emb CAA25141.1	94% 98%	307 71	834 319
HCONJ23	1012519	464	blastx.2	DNA-PK [Homo sapiens]	gb AAA79184.1	97%	1	990
HVVBL04	1012536	465	blastx.2	inositol 1,4,5- trisphosphate receptor type 2 [Mus musculus]	emb CAA94861.1	98%	2	310
HVVAF65	1012542	466	blastx.2	peroxisomal acyl-CoA oxidase [Homo sapiens]	emb CAA50574.1	98%	3	731
HCONN76	1012545	467	blastx.2	p78 protein [Homo sapiens]	gb AAA36458.1	99%	64	1716
HODEG95	1012599	469	blastx.2	(AF118082) PRO1902 [Homo sapiens]	gb AAF22026.1 AF1 18094_21	64% 41%	452 550	300 443

HCOOX52	1012600	470	blastx.2	C1 inhibitor [Homo sapiens]	emb CAA30314.1	100%	68	1567
HVVBK78	1012645	472	blastx.2	protein kinase C mu [Homo sapiens]	emb CAA53384.1	98%	101	643
HVVBK73	1012646	473	blastx.2	amiloride binding protein [Homo sapiens]	emb CAA55046.1	93%	2	709
HCOMW3	1012652	474	blastx.2	NBK [Homo sapiens]	emb CAA62013.1	52%	648	710
						100%	48	527
HVVBK78	1012654	475	blastx.2	(AF026851) cytochrome oxidase assembly factor [Homo sapiens]	gb AAD08640.1	99%	44	1099
						99%	1102	1701
HVVA41	1012665	477	blastx.2	(AB006202) cytochrome b small subunit of complex II [Homo sapiens]	dbj BAA22054.1	100%	74	550
HVVAS32	1012668	478	blastx.2	giantin [Homo sapiens]	emb CAA53052.1	95%	24	2036
						97%	2032	2856
						27%	141	1877
						22%	123	2252
						23%	222	2015
						23%	135	2078
						22%	117	2030
						23%	153	2021
						23%	117	1829
						22%	126	2018
						20%	117	1877
						22%	69	2039
						19%	126	1883



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HVVAQ22	1012684	480	blastx.2	smooth muscle myosin light chain kinase, smMLCK [C-terminal] 11	gb AAB50715.1	98%	67	573
HTAES83	1012693	481	blastx.2	specific 116-kDa vacuolar proton pump subunit [Homo sapiens]	gb AAA97878.1	99%	302	1990
HOCMN67	1012700	482	blastx.2	receptor kinase [Homo sapiens]	gb AAA58391.1	99%	1	1155
HAPOW35	1012711	483	blastx.2	agpet8 protein. [Schizosaccharomyces pombe]	emb CAA94699.1	48%	113	553
HOVJM48	1013085	484	blastx.2	(AL035593) dJ310J6.1 (novel protein) [Homo sapiens]	emb CAB56526.1	100%	2	454
HBJHY84	1013213	485	blastx.2	(AK000703) unnamed protein product [Homo sapiens]	dbj BAA91330.1	97%	3	653
HFIAS44	1013288	487	blastx.2	(AF124727) acinusS [Homo sapiens]	gb AAD56725.1	99%	205	1605
						100%	69	203
						43%	1186	1389
						38%	1186	1407
						34%	1168	1395
						28%	1195	1605
						24%	1183	1605
						26%	1375	1653
						23%	1313	1615
						30%	1490	1675

HHAUD68	1013349	488	blastx.2	non-histone chromosomal protein [Homo sapiens]	gb AAB53427.1	40%	1112	1207
HEEA489	1013436	489	blastx.2	(AF071172) HERC2 [Homo sapiens]	gb AAD08657.1	100%	269	538
HNTAK22	1013524	490	blastx.2	(AF053944) aortic carboxypeptidase-like protein ACLP [Homo sapiens]	gb AAC25585.1	98% 100%	43 2	675 46
HOVBX78	1013687	491	blastx.2	(AK001751) unnamed protein product [Homo sapiens]	dbj BAA91882.1	99% 34% 32% 27% 27% 25%	2 2 53 20 3 9	3175 853 853 763 305 341
HVVAW7 4	1013740	492	blastx.2	elongation factor 2. [Homo sapiens]	emb CAA35829.1	98% 88% 47%	281 633 649	637 707 750
HSPSF84	1013853	493	blastx.2	heat shock protein [Drosophila melanogaster]	emb CAA30276.1	99% 90% 40%	139 5 165	516 136 440
HPAMV95	1014003	494	blastx.2	metalloproteinase inhibitor precursor [Homo sapiens]	gb AAA59581.1	100%	54	713
HOVBX22	1014041	495	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	60% 40% 63%	317 159 181	183 67 149
HPDRB63	1014204	496	blastx.2	zinc finger protein C2H2-25 [Homo sapiens]	gb AAA93261.1	60% 65% 59% 53%	2 2 2 2	781 646 679 766

HNHG166	1014252	497	blastx.2	fused-codB [Escherichia coli]			emb CAA71575.1	49%	47	766
HDPPN96	1014432	498	blastx.2	interferon-gamma induced protein [Homo sapiens]			gb AAA58683.1	99%	416	1741
HPCTH41	1014485	499	blastx.2	(AB014888) MRJ [Homo sapiens]			dbj BAA32209.1	85%	1535	2434
HPCTY73	1014646	500	blastx.2	glycyl tRNA synthetase [Homo sapiens]			dbj BAA06338.1	39%	1574	2413
HCOPQ33	1014730	501	blastx.2	SOX9 [Homo sapiens]			emb CAA86598.1	33%	536	1624
HOEBR36	1014754	502	blastx.2	(AF180801) peroxisomal long chain acyl-CoA thioesterase Ib [Mus musculus]			gb AAF13872.1	100%	168	890
HOEER36	1014869	504	blastx.2	(AF172066) retinoic acid repressible protein [Homo sapiens]			gb AAD49745.1 AF1 72066_1	92%	1	123
HE8OX75	1015010	505	blastx.2	(AK000385) unnamed protein product [Homo sapiens]			dbj BAA91131.1	100%	83	2299
HVASI06	1015024	506	blastx.2	(AK000178) unnamed protein product [Homo sapiens]			dbj BAA90992.1	100%	3	380
								73%	429	1061
								77%	176	352
								73%	9	167
								44%	352	480
								100%	75	794
								53%	328	158
								54%	246	112
								85%	110	48
								100%	106	1086
								31%	619	1206
								96%	35	109
								100%	1083	1106

HDPXP07	1015059	507	blastx.2	(AK000370) unnamed protein product [Homo sapiens]	dbj BAA91118.1	64%	3	215
HE2KH02	1015093	508	blastx.2	(AL137756) hypothetical protein [Homo sapiens]	emb CAB70908.1	99%	1	615
HSPSI60	1015133	509	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	67%	5	319
HOCOC26	1015143	510	blastx.2	(AE001691) conserved hypothetical protein [Thermotoga maritima]	gb AAD35130.1 AE001691_4	40% 41%	136 136	690 543
HHEDC05	1015204	511	blastx.2	Lipoprotein RlpA precursor. [Escherichia coli]	dbj BAA35276.1	98%	867	61
HODES86	1015304	512	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	57%	125	364
HOPJU57	1015324	513	blastx.2	SELENOPROTEIN W.	sp O15532 SELW_H_UMAN	98%	934	1164
HVCAC71	1015343	514	blastx.2	alcohol dehydrogenase class III [Homo sapiens]	gb AAA51597.1	99%	41	1204
HSXCO55	1015360	515	blastx.2	coronin-like protein [Schizosaccharomyces pombe]	emb CAB11184.1	33% 28% 30% 24% 30%	159 1258 2063 991 1533	971 1575 2428 1263 1736
HLWDB78	1015430	516	blastx.2	(AK001322) unnamed protein product [Homo sapiens]	dbj BAA91623.1	95% 56%	30 613	602 681

HPCQU04	1015563	517	blastx.2	sapiens] (AF093414) estrogen response element binding protein [Saguinus oedipus]	gb AAC77437.1	98%	315 1232 1309 282	1232 1390 1362 518
HDPAT52	1015574	518	blastx.2	(AF056191) TPA inducible protein [Homo sapiens]	gb AAC12944.1	99%	122 290 467 458 467 473 473 467	1054 1054 1018 1030 1030 1024 1024 1024
HAOSL81	1015620	519	blastx.2	P24 protein [Mus musculus]	dbj BAA18947.1	41%	139	549
HMWIU46	1015814	520	blastx.2	(AF148457) heterogeneous nuclear ribonucleoprotein, alternate transcript [Homo sapiens]	gb AAF04487.1 AF1 48457_1	32%	815	970
HSXCQ19	1015994	521	blastx.2	(AC006486) BC85722_1 [Homo sapiens]	gb AAD11988.1	99%	232	1152
HNOAG06	1016272	522	blastx.2	(AF001947) U4/U6- associated RNA	gb AAC09069.1	90%	3	1175
						37%	880	1203
						25%	30	515
						29%	595	867
						30%	15	299
						28%	63	284
						25%	523	888
						47%	341	397
						100%	340	546

HE2KN09	1016351	523	blastx.2	splicing factor [Homo sapiens] (AF095446) syndesmos [Gallus gallus]	gb AAF29566.1 AF095446.1	75%	24	680
HI5DH58	1016740	524	blastx.2	(AF060570) rig-1 protein [Mus musculus]	gb AAD11628.1	70% 65% 48%	69 55 1058	1313 210 1222
HSPSB62	1016768	525	blastx.2	(AB016533) nuclear protein containing a WW domain (Npw38) [Homo sapiens]	dbj BAA76400.1	100%	196	990
HE2FR37	1016939	526	blastx.2	(AF213393) ATP-binding cassette protein [Mus musculus]	gb AAF31432.1	73%	247	726
HBJHU33	1017051	527	blastx.2	(AK001775) unnamed protein product [Homo sapiens]	dbj BAA91901.1	99%	82	618
HCOQZ88	1017227	528	blastx.2	(AF027299) protein 4.1-G [Homo sapiens]	gb AAC16923.1	100% 47%	225 3	1196 722
HNTSV21	1017374	529	blastx.2	seryl-tRNA synthetase [Homo sapiens]	emb CAA62635.1	95% 90%	712 3	1008 32
HNORH33	1017461	530	blastx.2	(AJ132637) ATP-dependent metalloprotease YME1L [Homo sapiens]	emb CAB51858.1	99%	255	2063
HUFEF35	1017565	531	blastx.2	precursor polypeptide (AA -21 to 782) [Homo sapiens]	emb CAA33261.1	99% 100% 35%	303 2527 1083	2123 3048 1166

HJPCG39	1017694	532	blastx.2	(AF118078) PRO1848 [Homo sapiens]	gb AAF22022.1 AF1 18094_17	65%	17	139
HISBM03	1017772	533	blastx.2	(AF092576) translation initiation factor eIF3 p40 subunit; 1	gb AAC84044.1	45%	142	240
HOFAA79	1017801	534	blastx.2	(AF134404) delta-6 fatty acid desaturase [Homo sapiens]	gb AAD31282.1 AF1 34404_1	100%	751	924
HPRAJ96	1017825	535	blastx.2	growth-regulating protein [Homo sapiens]	gb AAA18898.1	88% 83%	14 505	532 885
HBXFX71	1018032	536	blastx.2	(AF071081) proline- rich mucin homolog [Mycobacterium tuberculosis]	gb AAD41594.1 AF0 71081_1	100%	690 653	824 685
HMVDD8 1	1018080	537	blastx.2	(AF161477) HSPC128 [Homo sapiens]	gb AAF29092.1 AF1 61477_1	32% 30%	1 1	597 633
HVVVDH50	1018226	538	blastx.2	zyxin [Homo sapiens]	emb CAA64447.1	99%	23	745
HNNBT57	1018243	539	blastx.2	(AK000372) unnamed protein product [Homo sapiens]	dbj BAA91120.1	100%	143 1330 1303 662 134 1822	1327 1857 1455 1336 346 1914
HCONJ11	1018459	540	blastx.2	(AF083385) 30kDa splicing factor; SPF 30 [Homo sapiens]	gb AAC64086.1	24% 54% 28% 30%	5 194 355 363	295 45 230 244
HCQAW6	1018501	541	blastx.2	(AK000010) unnamed	dbj BAA90881.1	100%	186	899
							104	436



8					protein product [Homo sapiens]		100%	1198	1293
HVVCY25	1018772	542	blastx.2	almost identical to nRNP M protein, acc.L03532 [Homo sapiens]	emb CAA50897.1		96%	1381	1455
HCOMB65	1018802	543	blastx.2	dJ68O2.2 (myosin, heavy polypeptide 9, non-muscle) [Homo sapiens]	emb CAB05105.1		99%	409	1059
							56%	418	792
							47%	394	711
							48%	418	810
							100%	332	1204
							100%	1803	2600
							100%	1204	1800
							26%	1725	2486
							63%	19	246
							23%	332	1237
							23%	335	1243
							25%	341	1183
							23%	332	1156
							23%	1803	2588
							22%	332	1147
							22%	332	1195
							25%	332	1195
							23%	332	1201
							23%	299	1249
							22%	1734	2531
							23%	1204	1746
							27%	1207	1791
							21%	1219	1767
							22%	335	1198
							30%	1258	1788
							22%	1794	2588
							23%	491	1204
							19%	335	1237

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								22%	1204	1788
								23%	1237	1803
								18%	1189	1767
								25%	611	1183
								25%	1228	1473
								29%	1222	1440
								31%	1714	1800
								35%	67	228
								27%	1684	1803
								31%	115	237
								28%	61	216
								26%	67	225
								24%	258	401
								19%	34	234
								28%	249	344
								26%	1192	1305
HVVCF30	1018907	544	blastx.2	(AF010144) neuronal thread protein AD7c- NTP [Homo sapiens]			gb AAC08737.1	53%	121	387
								61%	118	294
								69%	149	295
								62%	3	131
								59%	284	349
								53%	42	128
								47%	282	380
HODBV21	1018943	545	blastx.2	(AC004537) similar to tumor suppressor p33ING1; similar to AF044076 (PID:g2829208) [Homo sapiens]			gb AAC12956.1	99%	151	861
HCHMD81	1019326	546	blastx.2	(AL023859) tma-			emb CAA19575.1	42%	733	945

					splicing endonuclease subunit [Schizosaccharomyces pombe]			29%	85	423
HAZAR95	1019338	547	blastx.2		phosphate carrier protein [Homo sapiens]	emb CAA42641.1		100%	110	1192
HMWFS51	1019409	548	blastx.2		(AB012223) ORF2 [Canis familiaris]	dbj BAA25253.1		41% 54% 42%	314 71 648	607 277 704
HB8SD82	1019585	549	blastx.2		(AL035494) dJ635G19.2.1 (novel protein (isoform 1)) [Homo sapiens]	emb CAB44749.1		99%	13	570
HSPSN08	1019608	550	blastx.2		(AF161491) HSPC142 [Homo sapiens]	gb AAF29106.1 AF161491.1		100% 99%	134 918	919 1235
HVCAH24	1019749	551	blastx.2		(AC002394) Unknown gene product [Homo sapiens]	gb AAC05810.1		100%	103	468
HJPCF71	1019892	554	blastx.2		(AK000566) unnamed protein product [Homo sapiens]	dbj BAA91259.1		98%	234	830
HVCAE76	1019942	555	blastx.2		zinc finger protein [Rattus norvegicus]	emb CAA42610.1		48% 34% 50% 63%	576 72 1 89	2075 731 90 121
HOCMH14	1020007	556	blastx.2		(AL137618) hypothetical protein [Homo sapiens]	emb CAB70844.1		99% 78% 42%	298 1146 1871	1311 1730 1984
HPDRZ03	1020130	557	blastx.2		CCAAT-box DNA binding protein subunit	gb AAA59930.1		100%	131	751

HOCPO73	1020180	558	blastx.2	NF-YB [Homo sapiens] protein p84 [Homo sapiens]	gb AAA53571.1	93% 97% 100% 42% 37%	3646 3881 3993 1832 1888	2024 3636 3940 1758 1841
HNKDT10	1020832	559	blastx.2	(AF191018) E2IG3 [Homo sapiens]	gb AAF09482.1 AF1 91018 1	99% 93%	77 426	436 569
HWHGO2 5	1020841	560	blastx.2	(AF090942) PRO0657 [Homo sapiens]	gb AAF24054.1 AF0 90942 1	68%	3	137
HWMNE3 1	1020852	561	blastx.2	(AF083384) 45kDa splicing factor; SPF 45 [Homo sapiens]	gb AAC64085.1	98%	169	675
HUSYJ75	1020878	562	blastx.2	(AJ242540) hydroxyproline-rich glycoprotein DZ- HRGP [Volvox carteri f. nagariensis]	emb CAB62280.1	33% 35% 34% 32% 34% 32% 31% 32% 29% 31% 30% 28% 34% 31%	67 67 67 67 67 67 67 67 64 67 64 64 184 184	684 624 624 684 624 714 696 624 714 654 654 696 624 783
HSDFS07	1020904	563	blastx.2	(AL033534) hypothetical serine-rich secreted protein	emb CAA22127.1	27%	981	118

HCOPC09	1021208	564	blastx.2	[Schizosaccharomyces pombe] (AJ245905) HSBP1-like protein	emb CAB55759.1	95%	183	305
HVVB22	1021323	565	blastx.2	[Chlorocebus aethiops] hnRNP G protein [Homo sapiens]	emb CAA80599.1	100%	936	1649
HAMFW6	1021327	566	blastx.2	(AF075704) neuronal glutamine transporter [Rattus 1]	gb AAF34240.1 AF075704_1	89% 89% 100%	20 949 15	937 1227 53
HPMBW8	1021661	567	blastx.2	(AF129756) G4 [Homo sapiens]	gb AAD18083.1 AA D18083	85%	3	614
HOFMK02	1021666	568	blastx.2	(AF038616) small tumor antigen t-ag [Simian virus 40]	gb AAC59341.1	100%	159	230
HOUHK71	1021682	569	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	75%	429	268
HCOOW2	1021759	570	blastx.2	(AJ011376) hypothetical protein [Homo sapiens]	emb CAB66159.1	30%	210	689
HACMT02	1021794	571	blastx.2	ORF_o109 [Escherichia coli]	gb AAA79814.1	100%	209	3
HISDS67	1022018	572	blastx.2	(AK000633) unnamed protein product [Homo sapiens]	dbj BAA91298.1	60% 36% 43% 28% 24% 30% 38%	22 1139 1130 890 417 1277 1344	339 1318 1225 1327 950 1522 1484

HOVAA59	1022037	573	blastx.2	(AC002291) Similar ATP-dependent RNA Helicase [Arabidopsis thaliana]	gb AAC00620.1	27% 48% 28% 41%	1232 590 1285 1143	1372 682 1455 1193
HOCPL72	1022059	574	blastx.2	(AK001197) unnamed protein product [Homo sapiens]	dbj BAA91548.1	59% 33% 31% 39% 21% 46% 29% 27% 38% 36%	252 1765 1316 1573 1744 1417 1744 1736 1447 1718	1319 2421 1585 1770 2211 1506 1917 1966 1536 1813
HCOMM0 5	1022082	575	blastx.2	epidermal growth factor receptor kinase substrate [Homo sapiens]	gb AAA62280.1	46% 43% 23%	445 115 43	840 435 222
HLYDC86	1022162	576	blastx.2	(AF015040) NUMB protein [Homo sapiens]	gb AAD01548.1	100% 100%	3 839	836 1570
HTLEP21	1022167	577	blastx.2	(AF081280) nucleoplasmin-3 [Homo sapiens]	gb AAC31609.1	97% 100%	101 33	445 95
HVCAS77	1022313	578	blastx.2	ribonuclease HI large subunit [Homo sapiens]	emb CAB09725.1	99%	176	1072
HSKJP93	1022663	580	blastx.2	(AL050022) hypothetical protein	emb CAB43242.1	100%	2	247

HAZAA64	1022719	581	blastx.2	[Homo sapiens] predicted using Genefinder; Similarity to Prototheca 1 1 gene; cDNA EST yk386c1.3 comes from this gene; cDNA EST yk38	emb CAA99938.1	43%	304	705
HSEBD72	1022904	582	blastx.2	(AF044773) breakpoint cluster region protein 1 [Homo sapiens]	gb AAC08964.1	89%	164	580
HDPYE27	1022911	583	blastx.2	(AF062346) zinc finger protein 216 splice variant 1 [Homo sapiens]	gb AAC42601.1	100%	428	1066
HCRQL51	1022997	584	blastx.2	PEG1/MEST [Homo sapiens]	emb CAA72297.1	100%	50	1030
HDTCC55	1023046	585	blastx.2	(AL117483) hypothetical protein [Homo sapiens]	emb CAB55956.1	33% 35% 42%	306 4 105	533 105 182
HOOJQ91	1023049	586	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	63%	3	530
HCE4K28	1023227	587	blastx.2	(AF021792) Bcl- X/Bcl-2 binding protein [Homo sapiens]	gb AAB72092.1	98%	262	750
HPDVY62	1023264	588	blastx.2	DOCK180 protein [Homo sapiens]	dbj BAA09454.1	99%	2	1126
HLHDK42	1023339	589	blastx.2	modifier 2 [Mus musculus]	emb CAA40012.1	61% 85%	58 3	300 62
HLDRQ55	1023375	590	blastx.2	coiled-coil like protein	gb AAB61902.1	98%	5	388



HVVB106	1023414	591	blastx.2	1 [Mus musculus] (AF064603) GA17 protein [Homo sapiens]	gb AAC17108.1	97% 96%	93 1359	647 637
HOCME51	1023422	592	blastx.2	(AK001103) unnamed protein product [Homo sapiens]	dbj BAA91503.1	98% 96% 97%	14 319 498	313 492 623
HPDOP74	1023531	593	blastx.2	(AF104670) cell cycle protein [Homo sapiens]	gb AAD05561.1	100%	173	1354
HMSOH12	1023545	594	blastx.2	chaperonin-like protein [Homo sapiens]	gb AAA61061.1	100%	1	1077
HOPJG50	1023584	595	blastx.2	ribosomal protein L34 [Homo sapiens]	gb AAC41916.1	97%	157	507
HDUAB04	1023585	596	blastx.2	ribosomal protein L34 [Homo sapiens]	gb AAC41916.1	97%	21	371
HVCAA38	1023632	597	blastx.2	TREB protein [Homo sapiens]	emb CAA39149.1	100%	36	818
HIBCN87	1023837	598	blastx.2	(AF006264) recombination and sister chromatid cohesion protein homolog [Homo sapiens]	gb AAD01193.1	96% 92% 79% 100% 67% 28% 33% 40% 38% 36% 35%	1 1160 1332 1582 969 88 202 250 1169 331 969	1017 1300 1478 1665 1070 972 471 417 1315 510 1028
HPCOM04	1024000	599	blastx.2	vacuolar H+ ATPase E subunit [Homo sapiens]	emb CAA53814.1	100%	141	818

HPAME01	1024332	601	blastx.2	(AL109978) hypothetical protein [Homo sapiens]	emb CAB53376.1	98%	804	1061
HTTJS76	1024472	602	blastx.2	N-WASP [Homo sapiens]	dbj BAA20128.1	97%	3	392
HCORI57	1024556	603	blastx.2	39 kDa encoded by N33 [Homo sapiens]	gb AAB18374.1	68%	6	44
HNORG50	1024624	604	blastx.2	(AF006084)p41-Arc [Homo sapiens]	gb AAB64189.1	97%	200	1231
HWLVR07	1024915	605	blastx.2	(AL050273) hypothetical protein [Homo sapiens]	emb CAB43374.1	57%	198	275
HOPKF60	1025047	606	blastx.2	(AJ249366) epsilon-COP protein [Homo sapiens]	emb CAB55628.1	98%	62	1027
HBDAD74	1025102	607	blastx.2	(AL031640) /prediction=(method:""genscan"" version:""1.0"" , 1 1 target:SPTREMBL::O6087	emb CAA21052.1	66%	1029	1112
HPCTY12	1025231	608	blastx.2	(AB015597) hTIM1 [Homo sapiens]	dbj BAA36499.1	100%	203	517
HFASF12	1025327	609	blastx.2	(AK000385) unnamed protein product [Homo sapiens]	dbj BAA91131.1		48	971
HLIBM71	1025359	610	blastx.2	(AF110776) adrenal gland protein AD-003 [Homo sapiens]	gb AAF14859.1 AF110776_1	39%	2	403
						96%	68	1225
						64%	251	3
						98%	183	512
						100%	512	766

HNOKW2 7	1025366	611	blastx.2	F35C11.4 [Caenorhabditis elegans]	emb CAA90244.1	30% 31%	162 743	632 1060
HPFDG48	1025526	612	blastx.2	(AF083242) HSPC024- iso [Homo sapiens]	gb AAD39840.1	88% 90%	313 564	387 623
HVVBF24	1025712	613	blastx.2	TRAM protein [Homo sapiens]	emb CAA445218.1	100%	175	1296
HE8UF88	1025745	614	blastx.2	retinoblastoma-binding protein mRbAp48 [Mus musculus]	gb AAC52275.1	96% 40%	124 1391	1473 1495
HOUBC29	1025749	615	blastx.2	GTP-binding protein (rab2) [Canis familiaris]	gb AAA30888.1	100%	444	719
HOCY47	1025965	616	blastx.2	(AF055010) unknown [Homo sapiens]	gb AAC09360.1	99% 92%	1567 1337	2760 1594
HOVKE20	1025990	617	blastx.2	folistatin-related protein FLRG [Homo sapiens]	gb AAC64321.1	100%	36	824
HODBK27	1026372	619	blastx.2	(AF054284) spliceosomal protein SAP 155 [Homo sapiens]	gb AAC97189.1	100%	123	497
HE8CH59	1026805	620	blastx.2	(AK001093) unnamed protein product [Homo sapiens]	dbj BAA91500.1	100% 100% 31% 36%	1913 1654 1994 2405	2632 1848 2689 2755
HSKGR52	1026911	621	blastx	putative glycosyl transferase [Schizosaccharomyces pombe]	emb CAB10854.1	55% 76% 42% 40%	488 389 272 92	616 439 376 202

HMUAQ0 5	1026913	622	blastx.2	(AF151825) CGI-67 protein [Homo sapiens]	gb AAD34062.1 AF1 51825_1	74%	54	524
HCOMA45	1026979	623	blastx.2	(AF113685) PRO0974 [Homo sapiens]	gb AAF29584.1 AF1 13685_1	51% 66%	557 601	378 566
HE2KJ45	1027007	624	blastx.2	(AF161553) HSPC068 [Homo sapiens]	gb AAF29040.1 AF1 61553_1	99%	6	1565
HODDO66	1027207	625	blastx.2	S-adenosylmethionine synthetase [Homo sapiens]	emb CAA48726.1	78% 94% 52%	35 865 7	241 975 63
HVVAT45	1027269	626	blastx.2	(AF102265) N- acetylglucosamine- phosphate mutase [Homo sapiens]	gb AAC72409.1	100% 100%	275 74	1117 277
HVCAG18	1027484	627	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens)	emb CAB37641.1	100%	22	393
HPTXK72	1027486	628	blastx.2	(AL031663) dJ461P17.6 (Major Epididymis-specific protein E4 1 1 sapiens)	emb CAB37641.1	100%	91	462
HDTLR06	1029191	630	blastx.2	(AF132552) BcDNA.GM01838 [Drosophila melanogaster]	gb AAD27851.1 AF1 32552_1	73%	123	1004
HPAMG11	1029484	631	blastx.2	BB1=malignant cell expression-enhanced gene/tumor 1 line, Peptide, 342 aa [Homo sapiens]	gb AAB37433.1	99%	2	667

HSDJR27	1030870	632	blastx.2	(AL137520) hypothetical protein [Homo sapiens]	emb CAB70786.1	100%	52	1176
HOCPL33	1030871	633	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	32%	1097	1516
						35%	1037	1429
						33%	1040	1420
						32%	1094	1429
						45%	1747	1899
						34%	1735	1881
						48%	566	640
						36%	74	130
HPCQN80	1030963	634	blastx.2	ha1025 is new [Homo sapiens]	dbj BAA07552.1	99%	95	2158
HODFZ16	1031085	636	blastx.2	(AB033168) nuclear protein ZAP [Mus musculus]	dbj BAA85182.1	96%	1	96
						86%	349	462
HWGAE28	1031316	637	blastx.2	member of DEAD box protein family [Homo sapiens]	emb CAA49992.1	99%	52	2271
HOFNZ21	1031328	638	blastx.2	valosin-containing protein [Sus scrofa]	gb AAA31142.1	65%	259	423
HOOKH25	1031329	639	blastx.2	(AC004472) TERA_HUMAN [Homo sapiens]	gb AAC07984.1	100%	279	2696
HDTIL75	1031435	640	blastx.2	(AK000031) unnamed protein product [Homo sapiens]	dbj BAA90894.1	99%	22	1092

HPRSB55	1031451	641	blastx.2	(AF168418) activating signal cointegrator 1 [Homo sapiens]	gb AAF01278.1	99%	9	1751
HPDPY36	1031606	642	blastx.2	(AF125182) single- strand selective monofunctional uracil DNA glycosylase [Homo sapiens]	gb AAD17301.1	100%	512	631
HETFI47	1031922	643	blastx.2	(AF020797) AP-mu chain family member mulB [Homo sapiens]	gb AAD25870.1 AF0 20797_1	99%	60	1328
HIMAMI21	1031988	644	blastx.2	hypothetical protein Rv0712 [Mycobacterium tuberculosis]	emb CAB06436.1	41%	365	1204
HCOQQ85	1032475	645	blastx.2	S100 calcium-binding protein A13 (S100A13) [Homo sapiens]	emb CAA68188.1	100%	379	672
HE2DQ62	1033653	646	blastx.2	putative T1/ST2 receptor binding protein precursor [Homo sapiens]	gb AAC50419.1	98%	105	785
HEBAE89	1034320	647	blastx.2	(AK000264) unnamed protein product [Homo sapiens]	dbj BAA91040.1	97%	260	400
HKDBF43	1034471	648	blastx.2	(AL049705) hypothetical protein [Homo sapiens]	emb CAB41269.1	100%	48	431
HVVCT43	1034539	649	blastx.2	novel ORF [Homo sapiens]	gb AAB72234.1	91% 100%	700 633	801 698

HTTDR30	1035435	650	blastx.2	(AF214634) polyA binding protein [Homo sapiens]	gb AAF19993.1 AF214634_1	91%	806	841
HODGO46	1035602	651	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	48%	693	986
HNTTB23	1035988	652	blastx.2	(AJ246001) spastin protein [Homo sapiens]	emb CAB60141.1	38%	468	115
HVVVBV73	1036583	653	blastx.2	(AF013249) leukocyte-associated Ig-like receptor-1 [Homo sapiens]	gb AAB69324.1	99%	93	974
HTEPV42	1036973	655	blastx.2	(AK001738) unnamed protein product [Homo sapiens]	dbj BAA91872.1	100%	439	1299
HFTCG52	1037108	656	blastx.2	(AF117723) seed maturation protein PM27 [Glycine max]	gb AAD30426.1 AF117723_1	99%	1	435
HKA0B40	1037131	657	blastx.2	predicted using Genefinder; Similarity to Drosophila RNA 1 this gene [Caenorhabditis elegans]	emb CAB01127.1	30%	286	786
						32%	73	357

HPDVE37	1037303	658	blastx.2	cathepsin C [Homo sapiens]	emb CAA60671.1	100%	118	885
HTLES74	1037438	659	blastx.2	GAP-associated protein p190 - rat	pir A38218 A38218	74% 56% 63% 41%	50 681 15 43	811 875 152 171
HCORG51	1037480	660	blastx.2	ubiquitin-like protein [Bos taurus]	gb AAB49682.1	100%	150	434
HPAMM7 2	1038344	661	blastx.2	nucleoside-diphosphate kinase [Homo sapiens]	emb CAA68877.1	99%	44	520
HKZAT03	1038378	662	blastx.2	endothelial cell growth factor [Homo sapiens]	gb AAA60043.1	100%	114	1559
HDQMA8 5	1038717	663	blastx.2	glutathione S-transferase [Homo sapiens]	gb AAA35934.1	100% 100%	234 110	356 235
HVCCQ82	1038718	664	blastx.2	glutathione S-transferase [Homo sapiens]	gb AAA35934.1	100%	114	578
HTGFP54	1038915	665	blastx.2	(AL080156) hypothetical protein [Homo sapiens]	emb CAB45747.1	94%	415	525
HBQDF41	1039017	666	blastx.2	beta-spectrin [Homo sapiens]	gb AAA60380.1	99% 20% 21% 22% 19% 22% 60%	1 7 28 16 1 184 2127	2172 2091 2151 2187 2118 2193 2351
HPAMC60	1039290	668	blastx.2	TRAF4-associated factor 2 [Homo]	gb AAD24202.1 U83194 1	100%	31	1242



HLMHM8 3	1039491	669	blastx.2	sapiens] (AK001123) unnamed protein product [Homo sapiens]	dbj BAA91513.1	44%	158	616
HOUDK70	1039538	670	blastx.2	(AF091083) unknown [Homo sapiens]	gb AAC72952.1	100%	285	1142
HMEFK29	1039652	672	blastx.2	(AC002398) F25965_1 [Homo sapiens]	gb AAB81199.1	54% 100%	808 1	993 48
HAOSK79	1039663	673	blastx.2	(AJ223953) hPTTG [Homo sapiens]	emb CAA11683.1	100%	54	659
HPDRV42	1039689	674	blastx.2	P58 [Homo sapiens]	gb AAC50331.1	100%	135	1649
HOPJD35	1039703	675	blastx.2	(AF035262) BAF57 [Homo sapiens]	gb AAC04509.1	100%	121	1353
HTFNP84	1039748	676	blastx.2	ect2 [Mus musculus]	gb AAA37536.1	94% 42%	73 27	1227 125
HTHDT76	1039871	677	blastx.2	(AL117404) hypothetical protein [Homo sapiens]	emb CAB55905.1	98%	7	564
HSYEC21	1039891	678	blastx.2	adenosine triphosphatase [Homo sapiens]	gb AAA35999.1	99% 96% 37%	432 1 3819	2372 435 3890
HKGCO25	1040384	679	blastx.2	NAP [Homo sapiens]	gb AAC37544.1	99%	3	665
HNOIN70	1040385	680	blastx.2	(AF062594) nucleosome assembly protein [Rattus norvegicus]	gb AAC67388.1	100%	297	425
HADFS31	1040388	681	blastx.2	(AF214680) C3HC4- like zinc finger protein [Homo sapiens]	gb AAF30180.1	88% 92%	449 145	832 504

HJBDC89	1040569	682	blastx.2	nonhepatic arginase [Homo sapiens]	dbj BAA13158.1	100% 97%	113 651	661 1175
HTAIX75	1040591	683	blastx.2	(AK000897) unnamed protein product [Homo sapiens]	dbj BAA91413.1	47%	303	557
HODBO29	1040620	684	blastx.2	thioesterase II [Homo sapiens]	emb CAA60024.1	63%	84	527
HOCOF27	1040631	685	blastx.2	zinc-finger helicase [Homo sapiens]	gb AAC39923.1	91%	277	687
HSPSE88	1040694	686	blastx.2	tumor susceptibility protein [Homo sapiens]	gb AAC52083.1	100% 52%	110 68	922 175
HSKXM78	1040826	687	blastx.2	(AK001550) unnamed protein product [Homo sapiens]	dbj BAA91751.1	63% 75% 31%	1 108 505	654 398 618
HNLMB92	1040913	688	blastx.2	protein of unknown function [Homo sapiens]	gb AAA63232.1	96%	355	666
HE8ON57	1040925	689	blastx.2	(AF005855) anon2A5 [Drosophila melanogaster]	gb AAB81486.1	26%	50	415
HOCOC14	1040932	690	blastx.2	protein antigen [synthetic construct]	emb CAA01182.1	100%	539	1384
HOGDP49	1041049	691	blastx.2	bcn92 [Drosophila subobscura]	emb CAB55311.1	55%	226	474
HOFMK22	1041070	692	blastx.2	(AF161479) HSPC130 [Homo sapiens]	gb AAF29094.1 AF1 61479 1	94%	3	356
HBGNT69	1041900	693	blastx.2	NF-AT3 gene product [Homo sapiens]	gb AAA79175.1	100% 71% 39%	111 3 421	428 212 612

HSPSI42	1042462	694	blastx.2	ubiquitin-activating enzyme E1 [Homo sapiens]	gb AAA61246.1	40%	455	586
HPDQD23	1042649	695	blastx.2	(AF055470) ZNF258 [Homo sapiens]	gb AAD15797.1	65%	174	338
HWMBAI0	1042859	696	blastx.2	Mei-18 protein [Homo sapiens]	dbj BAA03074.1	95%	2717	2256
HETKL27	1042951	698	blastx.2	unknown [Homo sapiens]	gb AAA76738.1	40%	188	637
HPCTH04	1043273	699	blastx.2	ATL-derived factor/thioredoxin [Homo sapiens]	emb CAA54687.1	100%	180	494
HVVBM94	1043532	701	blastx.2	pre-pump-1 proteinase (AA -17 to 250) [Homo sapiens]	emb CAA30678.1	100%	52	852
HVVBC43	1043553	702	blastx.2	(AB000468) zinc finger protein [Homo sapiens]	dbj BAA19122.1	100%	301	870
HTPDM31	1044199	703	blastx.2	proline-rich protein MP2 - mouse (fragment)	pir A24264 A24264	31%	632	48
						34%	584	51
						33%	632	138
						34%	620	225
						53%	742	659
						39%	790	659
						39%	790	659
						39%	790	659

HSQEK12	1044577	704	blastx.2		similar to Human Sp2 protein (M97190) [Homo sapiens]	dbj BAA05923.1	41% 38%	790 790	662 662
HPDRZ16	1044618	705	blastx.2		(AF106473) leucine-rich-domain inter-acting protein 1; LeR 1	gb AAD17989.1	89% 48%	53 1	439 93
HVCBC44	1044635	706	blastx		CTP synthetase homolog [Mus musculus]	gb AAB17729.1	77%	3	896
HPIAC22	1044711	707	blastx.2		D-E-A-D box protein [Drosophila melanogaster]	gb AAC14192.1	42% 47%	749 20	1738 493
HSODA53	1044741	708	blastx.2		(AF213393) ATP-binding cassette protein [Mus musculus]	gb AAF31432.1	68% 73%	1316 1101	1657 1319
HE9ML74	1044760	709	blastx.2		coded for by C. elegans cDNA yk34b1.5; coded for by C. elegans 1 1 coded for by C. elegans cDNA yk46e8.3; coded fo	gb AAB00699.1	77% 41% 52% 21% 31%	940 465 6 315 450	1269 932 260 614 593
HPDRB76	1044762	710	blastx.2		adenylate kinase 2B [Homo sapiens]	gb AAC13881.1	100%	160	855
HSYDI55	1044769	711	blastx.2		(AF151819) CGI-61 protein [Homo sapiens]	gb AAD34056.1 AF151819 1	100% 97%	309 1067	1067 1174
HOGCI31	1044821	712	blastx.2		(AL110271) hypothetical protein [Homo sapiens]	emb CAB53709.1	96%	34	558

HNOKX86	1044893	713	blastx.2	(AF092138) HSPC033 [Homo sapiens]	gb AAD40380.1	100%	303	575
HTPHG81	1045117	714	blastx.2	(AL117402) hypothetical protein [Homo sapiens]	emb CAB55903.1	100%	537	1538
HPCTV49	1045379	715	blastx.2	ribosomal protein [Homo sapiens]	gb AAA36389.1	100%	127	444
HHGDK68	1045464	716	blastx.2	(AL020993) dJ5O6.1 (casein kinase 1, epsilon) [Homo sapiens]	emb CAA15888.1	89% 100%	124 765	858 1013
HNOKM3 8	1045500	717	blastx.2	transducin (beta) like 1 protein [Homo sapiens]	emb CAA73319.1	99%	120	1640
HHFUN47	1045842	718	blastx.2	(AF099028) putative transmembrane protein cmp44E [Drosophila melanogaster]	gb AAD12254.1	49% 52% 27% 83%	2 2 1007 865	1135 952 2368 882
HE9EJ82	1046856	722	blastx.2	beta-signal sequence receptor [Homo sapiens]	dbj BAA07206.1	96%	24	173
HODHS68	1047137	724	blastx.2	(AK000826) unnamed protein product [Homo]	dbj BAA91390.1	99%	528	1220

[illegible]

HOFAE31	1047670	734	blastx.2	ubiquinol--cytochrome- c reductase (EC 1.10.2.2) 11K' protein - bovine	pir A00119 CCBO11	93% 92%	2 180	181 221
HNOAC93	1047820	736	blastx.2	(AB016092) RNA binding protein [Homo sapiens]	dbj BAA83718.1	100%	69	305
HMEJA45	1047848	737	blastx.2	(AF091242) ATP sulfurylase/APS kinase 2 [Homo sapiens]	gb AAC64583.1	87%	166	399
HLDAS11	1047937	738	blastx.2	Similar to Human C219-reactive peptide (L34688) [Homo sapiens]	dbj BAA13448.1	99% 91% 32%	233 52 503	958 249 907
HWMJB31	1048009	739	blastx.2	DARPP- 32=DOPAMINE AND CAMP-REGULATED PHOSPHOPROTEIN.	sp G545790 G545790	94%	169	729
HAZAA31	1048188	740	blastx.2	transketolase [Homo sapiens]	gb AAA98961.1	100% 76%	778 92	1959 1033
HOCMC83	1048300	741	blastx.2	hypothetical protein [Schizosaccharomyces pombe]	emb CAB11599.1	30%	446	1279
HCFC840	1048427	742	blastx.2	(AK001123) unnamed protein product [Homo sapiens]	dbj BAA91513.1	46%	17	1231
HVCAA65	1048595	743	blastx.2	(AF022815) proteasome subunit XAPC7 [Homo sapiens]	gb AAB81515.1	100%	191	934

HSPSI76	1048635	744	blastx.2	proyl 4-hydroxylase alpha (II) subunit [Homo sapiens]	gb AAB71339.1	99%	208	1578
HVVCH35	1048658	745	blastx.2	(AF177385) cytochrome c oxidase assembly protein isoform 2 [Homo sapiens]	gb AAF05313.1 AF1 77385_1	99%	436	1233
HOFNI66	1048739	746	blastx.2	signal peptidase complex 25 kDa subunit [Canis familiaris]	gb AA21254.1	95%	33	710
HMSKI90	1048792	747	blastx.2	unknown protein [Homo sapiens]	gb AAA88038.1	39% 28% 45% 100%	3258 1452 2039 327	2377 1180 1944 310
HSYBI49	1049151	748	blastx.2	(AF101051) senescence-associated epithelial membrane protein [Homo sapiens]	gb AAD16433.1	100%	173	805
HTXSN37	1049372	749	blastx.2	(AL080159) hypothetical protein [Homo sapiens]	emb CAB45750.1	47% 46%	1154 408	1861 530
HMUBT31	1049466	750	blastx.2	serine palmitoyltransferase, subunit I [Homo sapiens]	emb CAA69941.1	100%	11	1429
HFPDO90	1049644	751	blastx.2	Similarity to yeast hypothetical protein PIR accession number	emb CAA94801.1	100%	516	611



					1 1 this gene; cDNA EST yk504c7.3 comes from this gene; cDN					
HVVCB79	1050102	752	blastx.2		urokinase [synthetic construct]	emb CAA00829.1	95% 96%	213 1067	1139 1504	
HDPGR19	1050167	753	blastx.2		(AL031733) dJ455J7.1 (cellular repressor of E1A-stimulated genes CREG) [Homo sapiens]	emb CAB42866.1	100%	11	670	
HVVDX63	1050256	754	blastx.2		interferon regulatory factor 1 [Homo sapiens]	gb AAA36043.1	100%	212	1186	
HNOJA87	1050282	755	blastx.2		NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 (NF-E2 1 ERYTHROID DERIVED 2, LIKE 2) (HEBP1).	sp Q16236 NFL2_HU MAN	99%	643	2415	
HTPGI65	1050419	756	blastx.2		ESX [Homo sapiens]	gb AAB58075.1	100%	161	1273	
HHFGN14	1050536	757	blastx.2		DNA binding protein [Homo sapiens]	dbj BAA08565.1	99% 97% 53% 31% 32% 40% 28% 46%	1818 405 121 203 465 3017 1464 2939	2738 995 810 421 833 3136 1784 2983	
HTAIN76	1050553	758	blastx.2		(AF016903) agrin precursor [Homo]	gb AAC39776.1	98% 96%	371 3	1300 416	

[illegible]

HWLXZ72	1051319	766	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	39%	452	580
HUSGQ45	1051410	767	blastx.2	(AK000101) unnamed protein product [Homo sapiens]	dbj BAA90946.1	100%	18	527
HLDR454	1051437	768	blastx.2	cellular nucleic acid binding protein [Mus musculus]	gb AAB60490.1	100%	362	676
HNOJR48	1051533	769	blastx.2	(AJ251914) putative RNA helicase [Sus scrofa]	emb CAB63856.1	100%	94	1377
HKIXH35	1051883	770	blastx.2	Huntington Disease (HD) gene exon 1 [Homo sapiens]	emb CAA92991.1	65%	5	82
HHEBJ92	1051903	771	blastx.2	mannitol permease [Escherichia coli]	emb CAA24748.1	100%	184	2094
HPTGB84	1051953	772	blastx.2	(AF151871) CGI-113 protein [Homo sapiens]	gb AAD34108.1 AF151871.1	100%	93	668
HVCCD05	1051983	773	blastx.2	neurofibromin [Homo sapiens]	gb AAA59925.1	96%	18	968
HPYSC40	1052158	774	blastx.2	(AL050169) hypothetical protein	emb CAB43305.1	100%	20	583

HDDMT56	1052261	775	blastx.2	[Homo sapiens] (AF110775) adrenal gland protein AD-002 [Homo sapiens]	gb AAF14858.1 AF1 10775_1	100%	158	844
HVVAW0 2	1052553	776	blastx.2	sorcin CP-22 [Homo sapiens]	gb AAA60588.1	100%	59	652
HOGCS42	1052557	777	blastx.2	(AB000712) CPE- receptor [Homo sapiens]	dbj BAA22984.1	100%	226	852
HAZAA59	1052593	778	blastx.2	CUG-BP/hNab50 [Homo sapiens]	gb AAC50895.1	90%	50	745
HMALJ21	1052874	780	blastx.2	(AC002397) C9 [Mus musculus]	gb AAC36017.1	52% 49% 40%	632 243 1826	1033 650 1915
HLVAR61	1053037	781	blastx.2	nuclear protein essential for dosage compensation. [Caenorhabditis elegans]	gb AAA92286.1	64%	282	431
HLTCQ80	1053164	782	blastx.2	(AF064801) multiple membrane spanning receptor TRC8 [Homo sapiens]	gb AAC39930.1	87%	2	622
HDTDU67	1053171	783	blastx.2	54k protein (AA 1-504) [Canis familiaris]	emb CAA34385.1	100%	512	697
HMAABL01	1053173	784	blastx.2	(AK001782) unnamed protein product [Homo sapiens]	dbj BAA91907.1	100%	609	1289

HACMU05	1053236	785	blastx.2	(AB002405) LAK-4p [Homo sapiens]	dbj BAA24179.2	99% 100% 60%	1804 1301 815	2631 1813 889
HOVDF79	1053369	786	blastx.2	pumilio protein [Drosophila melanogaster]	gb AAB59189.1	66% 28% 27%	39 42 42	653 518 521
HVVBJ54	1053547	787	blastx.2	CIRP [Homo sapiens]	dbj BAA11212.1	100%	95	610
HOFMU50	1053548	788	blastx.2	heparan sulfate 2- sulfotransferase [Cricetulus longicaudatus]	dbj BAA20422.1	90%	374	532
HE9MO38	1053585	789	blastx.2	phosphoenolpyruvate carboxykinase (GTP) [Homo sapiens]	emb CAA72272.1	100% 48% 53%	77 486 387	220 587 431
HOPJF55	1053725	790	blastx.2	microfibril-associated glycoprotein [Homo sapiens]	gb AAA79920.1	100%	150	698
HAOTD13	1053746	791	blastx.2	casein kinase-II beta [Oryctolagus cuniculus]	gb AAA91892.1	100% ....	164	808

HOCPT34	1053973	793	blastx.2	p0071 protein [Homo sapiens] (AF058448) herpesvirus entry protein B [Homo sapiens]	emb CAA57478.1	98%	1	2334
HFKHC64	1054015	794	blastx.2		gb AAC23797.1	99%	178	1614
HOPKO37	1054085	795	blastx.2	drebrin E2 [Homo sapiens]	gb AAA16256.1	99%	2	1063
HNBVO53	1054122	796	blastx.2	p160 [Homo sapiens]	gb AAC17708.1	89% 46% 31% 36% 90% 31% 37%	50 639 1871 883 36 754 952	2332 1403 2380 1119 68 1101 1173
HCQDQ11	1054196	798	blastx.2	cytochrome c oxidase subunit 3 [Homo sapiens]	dbj BAA77671.1	93%	25	777
HTFML39	1054230	799	blastx.2	secreted cyclophilin-like protein [Homo sapiens]	gb AAA36601.1	100%	226	873
HOGCR32	1054235	800	blastx.2	similar to mouse CCl. [Homo sapiens]	dbj BAA13194.1	90% 62% 35%	15 160 128	110 204 169
HFCDL60	1054288	801	blastx.2	(AF005038) secretory carrier membrane protein [Homo sapiens]	gb AAB62723.2	99% 66%	152 2	919 46
HODEC13	1054400	802	blastx.2	(AC007059) Human homolog of Mus musculus wizL protein	gb AAD19818.1	87%	3	722

					[AA 4-1561] [Homo sapiens]				
HUSYA18	1054451	803	blastx.2		DNA/RNA-binding protein [Homo sapiens]	gb AAA75623.1	89% 28% 76% 39% 47%	35 161 1 591 3	553 484 39 689 59
HOCON42	1054527	804	blastx.2		DYNAMIN 2.	sp P50570 DYN2_HUMAN	95% 74% 30% 28% 38%	545 162 1276 1666 2190	1588 734 1638 1914 2246
HKMNH3 7	1054550	805	blastx.2		(AL031115) ZXDA, ZXDB (zinc finger X-linked protein) [Homo sapiens]	emb CAB36858.1	50%	37	720
HPDWP21	1054662	806	blastx.2		(AF178534) talin [Homo sapiens]	gb AAF27330.1	99% 78%	63 35	797 76
HOGCS2	1054677	807	blastx.2		(AJ245621) CTL2 protein [Homo sapiens]	emb CAB75542.1	99%	36	1388
HWMCK6 0	1054751	808	blastx.2		(AF125099) HSPC038 protein [Homo sapiens]	gb AAD39916.1 AF125099_1	100%	258	485
HWLOU33	1054790	809	blastx.2		lac repressor protein (gtg start codon) [Escherichia coli]	gb AAA24052.1	96%	18	401
HKZBM58	1054812	810	blastx.2		sin3 associated polypeptide p18 [Homo sapiens]	gb AAC51322.1	100%	126	584
HTEOV06	1054813	811	blastx.2		sin3 associated polynpeptide p18 [Homo sapiens]	gb AAC51322.1	95%	317	799

HTEHP29	1055174	813	blastx.2	sapiens] protein related N- terminus of tre oncogene [Homo sapiens]	dbj BAA02807.1	97%	7	585
HNOJJ32	1055248	814	blastx.2	PRAJA1 [Mus musculus]	gb AAC00205.1	73% 45% 30% 55%	1084 841 100 1908	1989 1620 948 1985
HPPHF52	1055304	815	blastx.2	(AB006625) The human homolog of a mouse imprinted gene, Peg3. [Homo sapiens]	dbj BAA22956.1	98% 90% 31% 27% 30% 24% 27% 26% 30% 26% 32% 24% 20% 34% 55% 26% 28% 28% 25%	2 1290 251 62 197 11 44 62 146 5 605 278 35 221 1308 1290 1437 596 1287	1348 1682 979 1276 895 1333 1324 1273 895 856 1003 1147 979 484 1445 1676 1676 829 1769



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					18394_1	100%	76	210
HAM1H1 2	1055899	825	blastx.2	nucleotide binding protein [Homo sapiens] Similarity to EGF domain; cDNA EST EMBL:T02406 comes from this gene [Caenorhabditis elegans]	emb CAA94773.1	28% 36%	53 263	559 562
HODIY67	1056000	826	blastx.2	(AF167160) protein inhibitor of activated STAT-1 [Homo sapiens]	gb AAD49722.1 AF1 67160_1	99%	8	1957
HNTR57	1056097	827	blastx.2	similar to ankyrin motifs; cDNA EST CEM89F comes from this 1 1 cDNA EST EMBL:D33056 comes from this gene; cDNA EST E	emb CAA99881.1	45%	2	853
HUKFL74	1056102	828	blastx.2	fsh-like protein [Mus musculus]	emb CAA66186.1	98%	1	168
HTEBF05	1056104	829	blastx.2	Wnt7a protein [Homo sapiens]	gb AAC51319.1	100%	9	344
HOPKD19	1056275	830	blastx.2	B-cell receptor associated protein [Homo sapiens]	gb AAB51324.1	100%	188	1084
HLICR58	1056290	831	blastx.2	(AF181467) protein Z- dependent protease inhibitor precursor [Homo sapiens]	gb AAD53962.1 AF1 81467_1	98%	3	932

HAAJAH48	1056400	833	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	100%	7	111
HSKJC61	1056407	834	blastx.2	(AF095448) putative G protein-coupled receptor [Homo sapiens]	gb AAC98506.1	100% 33%	366 265	1436 327
HHEBK29	1056454	835	blastx.2	(AF018081) type XVIII collagen [Homo sapiens]	gb AAC39658.1	95% 42% 43% 42% 46% 44% 45% 44% 38% 36% 26% 38% 35% 34% 37% 31% 25% 36% 44% 44% 29% 29% 32% 40%	1036 1036 1033 1036 1264 1429 1486 1036 1594 1327 1032 743 743 668 3777 1015 3672 3572 658 728 1432 2846 565 4021	3060 2118 2133 2166 2166 2118 2118 1632 2118 2109 2117 940 934 931 4139 1251 4190 3694 771 841 1587 3154 771 4119





HCHMM1 9	1056617	836	blastx.2	Lutheran blood group glycoprotein [Homo sapiens]	emb CAA58449.1	47%	2801	2751
HE8NG02	1056625	837	blastx.2	(AL035608) dJ479J7.1 (similar to CHONDROMODULI N-1) [Homo sapiens]	emb CAB55680.1	99%	10	1182
HWHKD2 2	1056654	838	blastx.2	(AF094760) RFXANK [Homo sapiens]	gb AAC69883.1	93%	271	1011
HOCPI87	1056666	839	blastx.2	protein-tyrosine- phosphatase (EC 3.1.3.48) 11A - human	pir A60345 A60345	59%	56	715
HAAAAA59	1056671	840	blastx.2	(AF151793) ALG-2 interacting protein 1 [Homo sapiens]	gb AAF08220.1 AF1 51793_1	99%	162	2765
HOSBJ18	1056672	841	blastx.2	finger protein 1, placental - human	pir A32891 A32891	56%	6007	6048
HUSGX12	1056736	842	blastx.2	GATA-6 [Homo sapiens]	dbj BAA22621.1	99%	752	2026
HPDRG02	1056764	843	blastx.2	protein disulfide isomerase-related protein [Homo sapiens]	gb AAA58460.1	68%	830	2095
						65%	914	2191
						65%	998	2221
						62%	590	1858
						61%	548	1774
						56%	482	1606
						40%	2203	2322
						61%	2239	2277
						100%	2	838
						99%	26	1405
						42%	26	523
						41%	1031	1366

HKZBB48	1056767	844	blastx.2	(AB022663) HFB30 [Homo sapiens]	dbj BAA78677.1	40%	1055	1327
HHAWB1 9	1056774	845	blastx.2	(AF140242) encephalopsin [Homo sapiens]	gb AAD32671.1 AF1 40242_1	98%	111	1316
HHATP38	1056786	846	blastx.2	VEGF related factor isoform VRF167 precursor [Homo sapiens]	gb AAA91463.1	100%	87	650
HVVBEO7	1056801	847	blastx.2	(AF003944) ovalbumin upstream promoter beta nuclear receptor rCOUPb [Rattus norvegicus]	gb AAB61297.1	97% 32%	702 185	983 328
HKAHB85	1056804	848	blastx.2	ear-2 gene product [Homo sapiens]	emb CAA31282.1	98%	4	831
HUSXA15	1056810	849	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	75% 62%	300 295	205 167
HNOCH54	1056839	850	blastx.2	Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]	emb CAA62188.1	30% 26% 26% 23% 24% 24% 24% 26%	727 556 727 703 703 706 892 703	1833 1875 1779 1809 1782 1812 1827 1812

[illegible]







[illegible]



27%	424	684
23%	1648	1929
28%	1648	1929
28%	1018	1383
25%	1651	1827
22%	1648	1830
26%	1384	1587
26%	1648	1827
24%	1648	1830
21%	1012	1452
32%	430	621
27%	1669	1812
23%	1393	1635
30%	1648	1806
32%	1123	1242
23%	1369	1929
25%	1648	1827
34%	427	567
40%	1648	1782
28%	1057	1239
24%	961	1383
26%	1357	1554
25%	1648	1800
22%	976	1518
28%	1222	1509
26%	724	1023
22%	4	300
28%	1390	1560
18%	1123	1554
22%	1648	1818

							907	1245
							1288	1584
							1075	1905
							1120	1383
							1207	1806
							409	675
							28	411
							1285	1509
							16	435
							1648	1917
							1648	1812
							1463	1567
							1072	1530
							1369	1929
							1648	1782
							1642	1782
							1012	1401
							338	454
							1651	1839
							1174	1509
							1357	1734
							1369	1626
							1375	1635
							754	1788
							440	631
							427	798
							1	165
							124	429
							1651	1800
							1648	1830



HOCPP16	1056856	851	blastx.2	insulin-like growth factor binding protein 2 [Homo sapiens]	gb AAA03246.1	50%	814	849
						45%	1863	1928
HNOAH83	1056862	852	blastx.2	platelet-endothelial tetraspan antigen 3 [Homo sapiens]	gb AAA87064.1	100%	127	393
						25%	1120	1236
HE2OU10	1056875	853	blastx.2	OTK27 [Homo sapiens]	dbj BAA23363.1	100%	36	650
HODGM4 6	1056927	854	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	68%	5	229
HODFR44	1056990	855	blastx.2	(AL137516) hypothetical protein [Homo sapiens]	emb CAB70782.1	99%	11	469
						42%	14	343
						47%	20	319
						50%	71	313
						48%	14	274
						34%	14	403
						38%	14	313
						38%	38	313
HCHND12	1057009	856	blastx.2	(AF121963) receptor tyrosine kinase precursor [Gallus gallus]	gb AAD31764.1 AF121963_1	77%	136	321
						77%	299	403
						37%	6	155
						42%	48	131
						32%	45	155
						42%	63	176
						38%	54	155



HBHAC29	1057157	857	blastx.2	myelin-associated glycoprotein precursor [Homo sapiens]	gb AAA59545.1	98% 90% 39% 100%	2 427 20 786	424 759 400 815
HTPFW87	1057170	858	blastx.2	carboxyl ester lipase [Homo sapiens]	gb AAA51973.1	98% 34% 39% 35% 37% 36% 36% 34% 34% 34%	5 1620 2154 2160 2136 2160 2160 2109 2010 1977	2206 2084 1687 1690 1687 1705 1768 1681 1687 1687
HISAF60	1057212	859	blastx.2	junctional adhesion molecule [Mus musculus]	gb AAC32982.1	38%	116	988
HRABO80	1057219	860	blastx.2	(AL050143) hypothetical protein [Homo sapiens]	emb CAB43289.1	100%	1590	1937
HADDF30	1057260	861	blastx.2	transcription regulatory protein Evi-1, short form - human	pir B60191 B60191	98% 22%	1 7	1155 858
HDAAS58	1057272	862	blastx.2	(AC005003) similar to zinc finger protein MAZ [Homo sapiens]; similar to AAB04121.1 (PID:g995935)	gb AAF01349.1 AC005003_1	77%	263	676
HSDZG15	1057307	863	blastx.2	Homology with Squid retinal-binding protein	emb CAA91418.1	68% 47%	3 1212	713 1274

HPDVY52	1057393	864	blastx.2	(PIR Acc. No. 1 1 laminin alpha 5 chain [Mus musculus])	gb AAC53430.1	64%	6	1196
HHESW02	1057478	865	blastx.2	(AF062075) leupaxin [Homo sapiens])	gb AAC16014.1	47%	1165	1380
HVVVBW8 4	1057561	866	blastx.2	(AB003184) ISLR [Homo sapiens])	dbj BAA22848.1	100%	95	1252
HSLJC80	1057797	868	blastx.2	prolargin [Homo sapiens])		34%	896	1258
						100%	342	1625
HEOAD12	1057842	869	blastx.2	(AF116865) hedgehog- interacting protein [Mus musculus])	gb AAC18782.1	32%	353	1228
						32%	899	1573
						28%	686	1420
						28%	1109	1657
						29%	1663	1980
						34%	262	357
						70%	533	1069
HVVBT41	1057880	870	blastx.2	(AL035587) dJ475N16.1 (CTG4A) [Homo sapiens])	emb CAB75301.1	100%	439	1272
HAZAE42	1057915	871	blastx.2	cellular retinol binding protein [Homo sapiens])	emb CAA30318.1	100%	255	659
HPRBN60	1057948	872	blastx.2	(AF002282) alpha- actinin-2 associated LIM protein [Homo sapiens])	gb AAC16672.1	99%	72	1019
HOVCZ68	1057958	873	blastx.2	folliculin 1 precursor - human	pir A32141 A32141	99%	1	987
H6EDF71	1057979	874	blastx.2	antigenic surface determinant OA3	emb CAA49196.1	99%	92	1021

HCOOF60	1058001	875	blastx.2	[Homo sapiens] ubiquitin carrier protein E2 - human	pir B42856 B42856	99%	133	855
HVVBH81	1058059	876	blastx.2	hnRNP U protein [Homo sapiens]	emb CAA46472.1	99%	227	2644
HSPTJ51	1058172	877	blastx.2	SWI/SNF complex 155 KDa subunit [Homo sapiens]	gb AAC50693.1	95% 90% 29%	51 51 45	1004 1043 1055
HOPKC80	1058174	878	blastx.2	(AJ011497) Claudin-7 [Homo sapiens]	emb CAA09626.1	99%	348	980
HOCPT58	1058250	879	blastx.2	(AF037261) SH3- containing adaptor molecule-1 [Homo sapiens]	gb AAC09244.1	100% 94%	121 19	765 126
HPCTP25	1058287	880	blastx.2	gamma- aminobutyraldehyde dehydrogenase [Homo sapiens]	gb AAB18827.1	98%	72	1553
HODKM5 2	1058305	881	blastx.2	(AB008789) grb7 protein [Homo sapiens]	dbj BAA29059.1	98%	58	999
HCONB89	1058316	882	blastx.2	acid ceramidase [Homo sapiens]	gb AAC50907.1	99%	118	1302
HBPND88	1058432	884	blastx.2	carboxyl terminal LIM domain protein [Homo sapiens]	gb AAC05580.1	99%	142	1128
H6EEO05	1058438	885	blastx.2	(AL117423) hypothetical protein [Homo sapiens]	emb CAB55915.1	99%	100	1527
HFIVR61	1058451	886	blastx.2	interferon beta 2a	emb CAA00839.1	99%	214	777

HVVBX28	1058458	887	blastx.2	[Homo sapiens]	SH3 domain-containing protein SH3P17 [Homo sapiens]	gb AAC50592.1	96%	53	493
HVVB138	1058475	888	blastx.2	factor H [Homo sapiens]	emb CAA68704.1		49%	308	466
							36%	104	301
HUKE146	1058539	889	blastx.2	(AF081507) signaling molecule LEFTY-B [Homo sapiens]	gb AAC33967.1		99%	294	2291
HDFT47	1058588	890	blastx.2	lymphocyte antigen [Homo sapiens]	gb AAA36236.1		25%	336	2264
HSSFS71	1058596	891	blastx.2	ESP1/CRP2 [Homo sapiens]	dbj BAA07703.1		26%	294	2291
HSDJH63	1058612	892	blastx.2	(AB045180) toll-like receptor 9 [Homo sapiens]	dbj BAB19259.1		25%	501	2219
HAHGD24	1058622	893	blastx.2	laminin alpha 5 chain [Mus musculus]	gb AAC53430.1		28%	1083	2288
HTAEV85	1058723	894	blastx.2	(AJ005566) SPR2H protein [Mus musculus]	emb CAA06595.1		27%	1185	2099
HPMME44	1058928	895	blastx.2	HCMVUL126 [human]	emb CAA3328.1		98%	479	1165
							99%	70	489
							98%	2	268
							91%	258	398
							95%	29	460
							77%	41	265
							34%	219	512
							92%	192	1358
							100%	107	190
							52%	128	184
							45%	122	181
							58%	131	181
							61%	80	1024
							43%	408	256
							64%	2500	2459
							50%	1784	1719
							35%	544	485
							96%	78	329

HSPSG28	1058977	897	blastx.2	herpesvirus 5] 26S protease subunit [Sus scrofa]	emb CAA61863.1	99% 88%	483 56	1679 82
HTGFW12	1059006	898	blastx.2	homolog of yeast mutL gene [Homo sapiens]	gb AAA63923.1	98% 94% 68%	83 1522 1431	1438 2670 1667
HOFMT75	1059050	899	blastx.2	cathepsin D [Homo sapiens]	gb AAA51922.1	87% 80%	7 414	456 743
HARNB17	1059085	900	blastx.2	HCMVUL126 [human herpesvirus 5]	emb CAA35328.1	98%	241	492
HPDRG65	1059102	901	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	69% 69% 83%	434 253 288	273 128 253
HAOSG15	1059145	902	blastx.2	(AF026291) chaperonin containing t-complex polypeptide 1, delta subunit; CCT- delta [Homo sapiens]	gb AAC96010.1	100%	160	1776
HHEND31	1059180	903	blastx.2	(AF117330) unknown [Rattus norvegicus]	gb AAD26207.1 AF1 17330 1	73%	175	1827
HBMSN62	1059186	904	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	86%	1102	1251
HOVC146	1059241	905	blastx.2	(AF037272) WAP four-disulfide core	gb AAC40055.1	87% 70%	41 175	214 336

HWLEP14	1059394	906	blastx.2	domain protein [Rattus norvegicus] (AF117646) long CBL-3 protein [Homo sapiens]	gb AAD34341.1 AF117646_1	99%	92	1348
HDABR73	1059532	908	blastx.2	bikunin [Homo sapiens]	gb AAC02781.1	100%	436	1191
HOGAJ24	1059626	909	blastx.2	Similar to Human testican (S33293) [Homo sapiens]	dbj BAA13404.1	100%	427	1698
HTJMV05	1059692	910	blastx.2	protein tyrosine phosphatase [Homo sapiens]	gb AAA50779.1	100%	5	685
HOOL70	1059710	911	blastx.2	hematopoietic cell phosphatase [Homo sapiens]	gb AAA35963.1	100% 37% 32% 30%	212 188 2209 2219	1996 508 2310 2296
HUNAE87	1059743	912	blastx.2	(AF062317) p120 catenin isoform 1B [Homo sapiens]	gb AAC39802.1	99%	158	955
HTPHO01	1059764	913	blastx.2	(AF169284) LIM and cysteine-rich domains protein 1 [Homo 1]	gb AAF34411.1	97%	125	1048
HDPWK69	1059784	914	blastx.2	(AL031629) similar to RNA recognition motif. (aka RRM, RBD, or 1 1)	emb CAA20980.2	52%	275	496

HPCOK03	1059849	915	blastx.2	(AF008551) aurora-related kinase 1 [Homo sapiens]	gb AAC12708.1	99%	59	1267
HOOJC15	1059967	917	blastx.2	(AL117639) hypothetical protein [Homo sapiens]	emb CAB56027.1	98%	575	1216
HODFG47	1059969	918	blastx.2	(AF132856) suppressor of G2 allele of skp1 homolog [Homo sapiens]	gb AAD30062.1	100%	215	1213
HBIPC05	1060137	919	blastx.2	(AF078798) extracellular signal-regulated kinase 7; ERK7 [Rattus norvegicus]	gb AAD12719.1	62%	23	832
HOPJJ32	1060193	920	blastx.2	replication protein A 14kDa subunit [Homo sapiens]	gb AAA58350.1	100%	447	635
HNOBN20	1060382	921	blastx.2	unknown protein [Homo sapiens]	gb AAA88036.1	43% 47%	1362 1487	1150 1380
HOCPX74	1060391	922	blastx.2	(AL137714) hypothetical protein [Homo sapiens]	emb CAB70887.1	91%	18	656
HTEPP27	1060415	923	blastx.2	PF20 [Chlamydomonas reinhardtii]	gb AAB41727.1	39%	207	581
HL YAJ79	1060495	924	blastx.2	ATPase subunit 6 [Homo sapiens]	dbj BAA07295.1	79%	197	808
HCOOQ11	1060656	925	blastx.2	sialidase [Homo sapiens]	emb CAA55356.1	70% 100%	1 189	189 308

HWMGIS1	1060711	926	blastx.2	hypothetical protein [Synecocystis sp.]	dbj BAA10294.1	41%	16	615
HDPJG33	1060780	927	blastx.2	GTP binding protein [Mus musculus]	emb CAA36803.1	78%	543	863
HL YAE20	1060967	928	blastx.2	hypothetical protein 2 (rRNA external transcribed spacer) - 1	pir S12206 S12206	67%	439	699
HKZAR86	1060972	929	blastx.2	ERF-2 [Homo sapiens]	emb CAA55592.1	99%	933	1061
HAOTX62	1061036	930	blastx.2	SPIN protein [Homo sapiens]	emb CAA75163.1	100%	1002	1259
HOCQG58	1061180	931	blastx.2	26S PROTEASOME REGULATORY SUBUNIT S2 (P97) (TUMOR 1 1	sp Q13200 PSD2_HU MAN	100%	63	2786
HOFNH33	1061185	932	blastx.2	MRAS2 gene product [Mucor racemosus]	gb AAA83994.1	31%	260	823
HAJAQ63	1061238	933	blastx.2	matrin 3 [Rattus norvegicus]	gb AAB63955.1	90%	1038	2570
						94%	293	1105
						54%	2361	2810
						98%	3308	3478
						24%	2634	2813
						31%	2646	2759
						35%	1755	1847
						35%	3362	3454
						40%	3837	3896
HVV/BK70	1061258	934	blastx.2	(AJ000414) Cdc42- interacting protein 4 [Homo sapiens]	emb CAA04062.1	92%	653	1276
						100%	31	468
HVV/BA82	1061332	935	blastx.2	(AL022313)	emb CAA18439.1	28%	627	1055
						100%	3	500



HWLLG38	1061388	936	blastx.2	dj1119A7.1 (mitochondrial thioredoxin) [Homo sapiens]	dbj BAA01706.1	100%	114	692
HTPCH84	1061466	937	blastx.2	neurocalcin [Bos taurus] (AF104419) decoy receptor 3 [Homo sapiens]	gb AAD03056.1	99% 100%	103 938	945 1000
HLGDA34	1061543	939	blastx.2	(AK000496) unnamed protein product [Homo sapiens]	dbj BAA91205.1	71% 73%	3 1766	254 1641
HAICB08	1061629	940	blastx.2	rhoHP1 [Homo sapiens]	dbj BAA19652.1	100%	3	326
HVVAW6 0	1061694	941	blastx.2	(AF151882) CGI-124 protein [Homo sapiens]	gb AAD34119.1 AF1 51882.1	100%	244	741
HPDVB50	1061708	942	blastx.2	(AJ002030) progesterone binding protein [Homo sapiens]	emb CAA05152.1	100%	33	206
HAZAY40	1061765	943	blastx.2	tight junction (zonula occludens) protein ZO- 1 [Homo sapiens]	gb AAA02891.1	100%	3	1631
HACMZ51	1061766	944	blastx.2	contains 10 ankyrin- like repeats; similar to human ankyrin, 1 bursaria Chlorella virus 1]	gb AAC96986.1	33% 28% 32% 30%	118 73 100 88	957 726 657 561
HUXAL63	1061790	945	blastx.2	100 kDa protein [Rattus norvegicus]	emb CAA45756.1	98%	2	1300

HLCLX57	1061886	946	blastx.2	latent transforming growth factor-beta- binding protein-2, 1 1	gb AAB37459.1	99%	3	953
						37%	447	941
						32%	27	398
						34%	21	398
						45%	696	941
						40%	693	914
						41%	696	941
						42%	681	929
						38%	666	941
						36%	693	914
						32%	666	989
						34%	684	929
						34%	657	929
						34%	666	941
						43%	12	167
						35%	696	929
						45%	6	149
						47%	15	149
						31%	9	377
						46%	3	155
						35%	678	914
						40%	3	149
						29%	9	365
						35%	3	155
						38%	3	143
						40%	246	371
						41%	837	944
						34%	3	143
						29%	15	188
						28%	99	215

HMALF63	1061935	947	blastx.2	factor activating exoenzyme S [Bos taurus]	gb AAA30514.1	35% 22% 57%	118 280 427	252 483 468
HACMR36	1062057	948	blastx.2	(AK000963) unnamed protein product [Homo sapiens]	dbj BAA91446.1	86% 99% 27% 34% 33% 27% 50%	181 29 1141 1460 1710 1883 1506	1290 391 1323 1528 1805 2170 1553
HAOSM08	1062079	949	blastx.2	(AF059617) serum- inducible kinase [Homo sapiens]	gb AAC14573.1	99%	284	2338
HTEFM89	1062084	950	blastx.2	(AF162680) STRIN protein [Homo sapiens]	gb AAD46623.2 AF1 62680.1	99%	500	1234
HCHAK72	1062123	951	blastx.2	(AF113596) mosaic serine protease epitheliasin [Mus musculus]	gb AAF21308.1	47%	95	1165
HPAME12	1062139	952	blastx.2	retinoic acid- and interferon-inducible 58K protein R158 [Homo sapiens]	gb AAA84934.1	100%	209	1654
HCE4F10	1062309	954	blastx.2	(AL050060) hypothetical protein [Homo sapiens]	emb CAB43253.1	97%	798	1535

HBCBE63	1062328	955	blastx.2	(AF007170) unknown [Homo sapiens]	gb AAC39582.1	100%	191	790
						69%	87	251
						87%	25	96
						57%	1	63
HSSJO19	1062346	956	blastx.2	endonuclease G [Bos taurus]	emb CAA51320.1	97%	361	248
						24%	1093	887
HE8NQ23	1062369	957	blastx.2	(AF062006) orphan G protein-coupled receptor HG38 [Homo sapiens]	gb AAC28019.1	99%	574	1419
						100%	416	571
						87%	171	263
HTELJ95	1062431	958	blastx.2	(AB006679) ATP binding protein [Homo sapiens]	dbj BAA21881.1	99%	272	949
HTPCP50	1062435	959	blastx.2	(AF111069) latrophilin 2 splice variant baae [Bos taurus]	gb AAD05305.1	38%	417	2129
						47%	1997	2044
HFKIT82	1062544	961	blastx.2	(AF152495) protocadherin beta 2 [Homo sapiens]	gb AAD43756.1 AF1 52495_1	98%	2	1663
						30%	20	1297
						26%	26	1267
HE2LW42	1062574	962	blastx.2	(AF090934) PRO0518 [Homo sapiens]	gb AAF24048.1 AF0 90934_1	100%	1267	1079
HOGCE44	1062586	963	blastx.2	protein tyrosine phosphatase (EC 3.1.3.48) [Homo sapiens]	gb AAA36528.1	99%	156	2561
HOVJJ72	1062626	964	blastx.2	latent TGF-beta binding protein-4 [Homo sapiens]	emb CAA73944.1	85%	547	1782
						91%	203	559
						85%	1	204

1728	562	30%
363	1	45%
1296	16	29%
885	16	30%
1869	1537	33%
1920	1132	33%
276	4	41%
1926	1465	32%
198	1	48%
1761	1507	38%
1734	1435	35%
1761	1474	36%
1881	1366	29%
198	4	47%
1116	553	29%
1743	1453	38%
198	34	36%
153	16	34%
583	212	23%
268	209	60%
1164	562	25%
268	215	66%
298	215	53%
268	206	42%
556	410	32%
280	215	52%
268	215	55%
328	212	38%
301	212	40%
493	245	29%

HODBT14	1062628	965	blastx.2	guanine nucleotide exchange factor [Homo sapiens]	gb AAA35914.1	37% 37% 42% 29% 55% 30% 29% 32% 32% 58% 29% 56% 58% 63% 40% 37% 37% 66% 87% 34% 69% 30% 38% 30% 63% 70%	215 212 209 4 215 212 841 1766 1667 230 215 1764 1792 1859 1391 12 254 549 838 1633 2007 1621 1024 1552 1525 1295	346 307 271 210 265 310 921 1930 1861 265 460 1838 1842 1891 1450 95 406 584 569 1421 1969 1421 938 1352 1493 1266
HBOEB83	1062629	966	blastx.2	thrombospondin-4	emb CAA79635.1	95%	4	1392

HODCT96	1062631	967	blastx.2	[Homo sapiens] repressor transcriptional factor [Homo sapiens]	gb AAA79179.1	74%	2	247
						74%	2	247
						73%	2	247
						56%	2	337
						40%	2	514
						69%	2	247
						69%	2	247
						41%	2	490
						78%	250	468
						67%	2	247
						66%	2	259
						71%	250	468
						73%	250	462
						77%	259	468
						71%	250	468
						75%	250	456
						70%	250	471
						69%	250	468
						71%	250	468
						64%	250	468
						63%	250	468
						72%	250	423
						38%	2	313
						49%	253	459
HTXJE60	1062655	968	blastx.2	(AK000642) unnamed protein product [Homo sapiens]	dbj BAA91301.1	50%	171	1112
HUSIQ62	1062679	969	blastx.2	high mobility group 2 protein [Homo sapiens]	gb AAA58659.1	100%	188	814
						31%	143	472

HKBAK29	1062718	971	blastx.2	(AF161525) HSPC177 [Homo sapiens]	gb AAF29140.1 AF1 61525_1	100% 93%	975 42	1562 140
HPMCX26	1062743	972	blastx.2	LIMK-2 [Homo sapiens]	dbj BAA08312.1	97%	365	649
HFKEHF51	1062785	973	blastx.2	(AF177203) cerebral cell adhesion molecule [Homo sapiens]	gb AAD51367.1 AF1 77203_1	99%	360	1910
HUCPE28	1062795	974	blastx.2	extensin [Volvox carteri]	emb CAA46283.1	36% 36% 36% 38% 27%	728 728 735 734 119	1063 958 1055 949 460
HPWAH30	1062840	975	blastx.2	zinc finger protein [Homo sapiens]	gb AAA59469.1	98% 77% 76% 76% 81% 75% 77% 75% 74% 76% 74% 75% 74%	1 1 1 1 1 1 1 1 1 1 10 1	705 705 705 705 666 702 696 705 705 705 705 705



74%	1	705
72%	1	705
73%	1	705
72%	1	705
71%	1	705
72%	1	705
71%	1	705
71%	1	705
71%	1	705
71%	1	705
70%	1	705
71%	1	705
71%	1	705
71%	1	705
67%	1	705
63%	1	705
59%	163	705
52%	702	815
51%	723	815
51%	723	815
42%	702	815
48%	723	815
42%	702	815
45%	723	815
39%	702	815
45%	723	815
39%	702	815
39%	702	815
46%	726	815
45%	723	815

H6EDQ51	H6EDQ51R	976	blastx.2	cytochrome b [Homo sapiens]	gb AAA19775.1	36%	702	815
HA5AU29	HA5AU29R	977	blastx.2	amyloid-beta protein [Homo sapiens]	gb AAB59501.1	85%	723	806
HACBX26	HACBX26R	978	blastx.2	NADH dehydrogenase subunit 1 [Homo sapiens]	dbj BAA07290.1	89%	702	815
HACMH72	HACMH72R	982	blastx.2	TraC protein (gtg start codon) [Plasmodium falciparum]	gb AAA24905.1	93%	723	815
HACMS55	HACMS55R	985	blastx.2	(AF013215) ribosomal protein S2 [Bos taurus]	gb AAB65437.1	100%	723	815
HACMX77	HACMX77R	986	blastx.2	protein kinase C inhibitor-1 [Homo sapiens]	gb AAA82926.1	100%	723	815
HACMZ45	HACMZ45R	987	blastx.2	Keratin 8 [Homo sapiens]	emb CAA52882.1	100%	726	809
						43%	726	815
						95%	10	210
							2	190
							2	259
							35	478
							3	116
							42	419
							3	245

HACND54	HACND54 R	988	blastx.2	(AC003956) acetolactate synthase [Homo sapiens]	gb AAB94632.1	67% 78%	2 267	466 404
HACNF21	HACNF21R	991	blastx.2	40-kDa keratin protein [Homo sapiens]	gb AAA36044.1	86%	3	608
HACNF41	HACNF41R	992	blastx.2	cytokeratin 8 (279 AA) [Homo sapiens]	emb CAA31376.1	100%	2	91
HACNI47	HACNI47R	993	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	95%	96	500
HADET44	HADET44R	996	blastx.2	URF 1 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24026.1	95% 92%	62 481	481 522
HAHHD12	HAHHD12 R	998	blastx.2	(AF016252) Spinophilin [Rattus norvegicus]	gb AAB72005.1	96%	1	96
HALSG11	HALSG11R	999	blastx.2	(AC004544) cytochrome C oxidase; match to P14406 (PID:g117121) [Homo sapiens]	gb AAC12952.1	74% 74%	116 54	376 134
HAOSB87	HAOSB87R	1002	blastx.2	delta- aminolevulinate synthase (housekeeping) [Homo sapiens]	emb CAA39794.1	73%	1	549
HAOSE70	HAOSE70R	1004	blastx.2	acidic ribosomal phosphoprotein (P1) [Homo sapiens]	gb AAA36471.1	88% 55%	166 273	267 359
HAOSF68	HAOSF68R	1005	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	90%	76	576

HAOSG95	HAOSG95 R	1006	blastx.2	ribosomal protein S20 [Homo sapiens]	gb AAA60286.1	82%	111	452
HAOSI79	HAOSI79R	1007	blastx.2	ribosomal protein L7 [Homo sapiens]	gb AAA03081.1	95%	10	330
HAOSJ27	HAOSJ27R	1008	blastx.2	polyubiquitin - tobacco hornworm (fragments)	pir JH0302 JH0302	100% 100% 75% 73% 49% 39% 72%	2 2 135 135 156 223 223	142 142 233 224 332 405 255
HAOSJ33	HAOSJ33R	1009	blastx.2	lactate dehydrogenase- A [Homo sapiens]	emb CAA26879.1	95%	3	353
HAOSK38	HAOSK38 R	1011	blastx.2	Ku protein subunit [Homo sapiens]	gb AAA36155.1	100%	4	303
HAOSL36	HAOSL36R	1012	blastx.2	S- adenosylhomocysteine hydrolase [Homo sapiens]	gb AAA51681.1	94% 96% 71% 88%	30 224 336 1	200 379 494 27
HAOSL47	HAOSL47R	1013	blastx.2	(AF155581) proteasome subunit beta 7 [Danio rerio]	gb AAD53521.1 AF1 55581_1	91% 93% 55% 80%	86 4 432 340	343 96 572 429
HAOTE06	HAOTE06R	1021	blastx.2	(AF132947) CGI-13 protein [Homo sapiens]	gb AAD27722.1 AF1 32947_1	98%	2	451
HAOTF90	HAOTF90R	1023	blastx.2	carboxyl methyltransferase [Homo sapiens]	dbj BAA02991.1	94%	3	170
HAOTI07	HAOTI07R	1026	blastx.2	HL23 ribosomal protein [Homo sapiens]	emb CAA39417.1	96% 84%	36 398	365 454

HAOTT79	HAOTT79R	1027	blastx.2	CYTOSKELETON- ASSOCIATED PROTEIN CKAP1 (TUBULIN FOLDING COFACTOR B).	sp Q99426 CKAP_H UMAN	80%	361	405
HAOTT79	HAOTT79R	1027	blastx.2	CYTOSKELETON- ASSOCIATED PROTEIN CKAP1 (TUBULIN FOLDING COFACTOR B).	sp Q99426 CKAP_H UMAN	88% 53%	9 332	356 376
HAOTU79	HAOTU79 R	1028	blastx.2	ME491 antigen precursor (AA -1 to 237) [Homo sapiens]	emb CAA30792.1	97%	57	452
HAOTW22	HAOTW22 R	1029	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8 (CYTOKERATIN 8) (K8) (CK 1)	sp P05787 K2C8_HU MAN	100%	1	201
HAPNK45	HAPNK45 R	1032	blastx.2	cytochrome c oxidase subunit 1 [Homo sapiens]	dbj BAA07292.1	90% 79% 90% 100%	2 274 473 261	262 516 535 281
HAPPR43	HAPPR43R	1033	blastx.2	hypothetical 18K protein - goldfish mitochondrion	pir JC1348 JC1348	42%	146	472
HAQML40	HAQML40 R	1035	blastx.2	ribosomal protein L39 [Homo sapiens]	dbj BAA11465.1	98%	106	258
HAUAK54	HAUAK54 R	1037	blastx.2	CAG-isl 7 [Homo sapiens]	gb AAC16021.1	62%	12	245
HAZAC68	HAZAC68 R	1042	blastx.2	lumican [Homo sapiens]	gb AAA91639.1	97% 26% 36%	3 3 3	587 551 500
HAZAD13	HAZAD13 R	1043	blastx.2	human elongation factor-1-delta [Homo sapiens]	emb CAA79716.1	74% 60%	53 250	478 555

HAZAE44	HAZAE44R	1045	blastx.2	fibronectin precursor [Homo sapiens]	emb CAA26536.1	98% 46% 40% 39% 36% 35% 33%	84 105 105 123 69 105 18	512 335 413 347 392 344 347
HAZAG23	HAZAG23R	1046	blastx.2	unnamed protein product [Homo sapiens]	emb CAA62211.1	96%	2	466
HAZAI89	HAZAI89R	1051	blastx.2	KERATIN, TYPE II CYTOSKELETAL 8 (CYTOKERATIN 8) (K8) (CK 1)	sp P05787 K2C8_HU MAN	100%	72	260
HAZAJ72	HAZAJ72R	1052	blastx.2	protein arginine N- methyltransferase [Rattus norvegicus]	gb AAC52622.1	97% 58% 81% 34%	1 497 579 537	537 580 611 605
HAZAQ80	HAZAQ80R	1053	blastx.2	(AF064205) dynactin 1 p135 isoform [Homo sapiens]	gb AAD55812.1	100%	84	389
HAZBI39	HAZBI39R	1056	blastx.2	(AL031427) dJ167A19.3 (novel protein) [Homo sapiens]	emb CAB46723.1	100%	83	424
HAZBJ69	HAZBJ69R	1057	blastx.2	transmembrane protein	emb CAA66947.1	100%	3	323

HBJHY72	HBJHY72R P00B	1063	blastx.2	[Oryctolagus cuniculus] (AL117434) hypothetical protein [Homo sapiens]	emb CAB55922.1	98%	1	297
HBXCG52	HBXCG52 R	1065	blastx.2	(AK001079) unnamed protein product [Homo sapiens]	dbj BAA91496.1	89% 46%	371 457	427 606
HCACS53	HCACS53R P00A	1067	blastx.2	histone H3 [Spisula solidissima]	gb AAA29965.1	90% 100% 86%	313 116 506	507 244 574
HCHAJ85	HCHAJ85R	1068	blastx.2	hemolysin [Acanthamoeba polyphaga]	gb AAA58585.1	61%	206	57
HCHMM7 1	HCHMM71 R	1069	blastx.2	(AC003040) unknown protein [Arabidopsis thaliana]	gb AAC23757.1	58% 44%	2 249	244 329
HCLBH21	HCLBH21R	1071	blastx.2	cytochrome c oxidase subunit 1 [Pan troglodytes]	dbj BAA85270.1	91% 88%	3 415	416 600
HCOMA72	HCOMA72 R	1073	blastx.2	NuMA protein - human	pir S33413 S33413	100%	115	273
HCOMB04	HCOMB04 R	1074	blastx.2	prolylcarboxypeptidase [Homo sapiens]	gb AAA99891.1	98% 55%	77 702	718 782
HCOMD38	HCOMD38 R	1075	blastx.2	phospholipid hydroperoxide glutathione peroxidase [Homo sapiens]	emb CAA50793.1	100%	39	275
HCOMD61	HCOMD61	1076	blastx.2	(AF047470) malate	gb AAC03787.1	87%	1	216

	R				dehydrogenase precursor [Homo sapiens]			75%	240	287
HCOMF52	HCOMF52 R		1078	blastx.2	hypothetical protein 384D8_6 [Homo sapiens]	gb AAB03345.1		80%	14	655
HCOMG28	HCOMG28 R		1079	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1		71% 100%	100 54	522 98
HCOMG40	HCOMG40 R		1080	blastx.2	ribosomal protein L15 [Rattus norvegicus]	emb CAA55026.1		76%	35	646
HCOMI30	HCOMI30R		1083	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1		85%	315	491
HCOMI37	HCOMI37R		1084	blastx.2	similar to 40S ribosomal protein; cDNA EST CEMSA13F comes from 1 1 gene; cDNA EST EMBL:M79582 comes from this gene; cDN	emb CAA86061.1		59% 66% 64%	304 89 518	540 301 568
HCOML11	HCOML11 R		1085	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1		90%	273	470
HCOMM5	HCOMM55 R		1087	blastx.2	The polymorphysm (RFLP) of this gene is associated with 1 1	dbj BAA03853.1		100%	298	176
HCOMO58	HCOMO58 R		1088	blastx.2	(AF042857) lung cancer antigen NY-LU-12 variant A [Homo	gb AAC05826.1		98%	4	282



HCOMW5 2	HCOMW52 RP00B	1089	blastx.2	sapiens] (AB032025) ubiquitin [Canis familiaris]	dbj BAA83996.1	99%	60	443
HCOMX77	HCOMX77 R	1090	blastx.2	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTE IN A1 1 (HNRNP CORE PROTEIN A1).	sp P09651 ROA1_H UMAN	65% 96% 100% 57% 53% 48% 34% 57% 62% 44% 45% 75% 50%	133 5 81 5 8 5 142 11 81 5 11 81 84	315 82 122 82 76 82 291 82 128 82 79 116 119
HCONC18	HCONC18 RP00B	1091	blastx.2	cathepsin D [Homo sapiens]	gb AAA51922.1	87% 91% 83% 71%	3 190 335 426	188 333 424 467
HCONK56	HCONK56 R	1093	blastx.2	ribosomal protein L18 [Homo sapiens]	gb AAA16329.1	100% 57%	104 567	616 665
HCONL49	HCONL49 R	1095	blastx.2	ribosomal protein S13 [Homo sapiens]	dbj BAA13528.1	98%	3	221
HCONO17	HCONO17 R	1099	blastx.2	(AC004240) match to Z43555 (NID:g572788) [Homo sapiens]	gb AAC04502.1	81% 71%	4 65	69 148
HCONO25	HCONO25 R	1100	blastx.2	5,10- methenyltetrahydrofola te synthetase [Homo	gb AAC41945.1	77% 87% 100%	251 147 3	610 245 68

HCONP44	HCONP44R	1101	blastx.2	sapiens]		pir A33281 A33281	51%	481	579
				H+-transporting ATP synthase (EC 3.6.1.34) 58K chain - human			96%	3	398
HCONR31	HCONR31R	1104	blastx.2	eizin (AA 1-586) [Homo sapiens]		emb CAA35893.1	98%	3	426
HCONU03	HCONU03R	1105	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]		gb AAA52496.1	92%	3	518
							92%	511	627
							53%	611	688
HCONW62	HCONW62R	1106	blastx.2	Human tetracycline transporter-like protein mRNA [Homo sapiens]		emb CAA92577.1	77%	1	297
							85%	330	473
							69%	529	645
HCOOG32	HCOOG32R	1111	blastx.2	ornithine decarboxylase antizyme [Homo sapiens]		dbj BAA13497.1	36%	6	119
							97%	5	334
HCOOG37	HCOOG37R	1112	blastx.2	ribosomal protein S17 [Homo sapiens]		gb AAA60284.1	92%	78	482
HCOOI71	HCOOI71R	1114	blastx.2	calpactin I light chain [Bos taurus]		gb AAA30423.1	100%	64	354
HCOOI79	HCOOI79R	1115	blastx.2	beta-subunit [Bos taurus]		emb CAA29094.1	77%	215	703
							50%	681	740
HCOOM18	HCOOM18R	1116	blastx.2	keratin 18 [Homo sapiens]		gb AAA59461.1	95%	14	640
HCOOM73	HCOOM73R	1117	blastx.2	claudin-10 [Homo sapiens]		gb AAC79506.1	100%	616	690
							90%	26	694
HCOOQ46	HCOOQ46	1118	blastx.2	protein-tyrosine		emb CAA48338.1	100%	2	166

	R				phosphatase [Homo sapiens]				
HCOOT43	HCOOT43 R	1120	blastx.2		neutral protease alpha subunit [Homo sapiens]	gb AAA35646.1	100%	95	439
HCOOT68	HCOOT68 R	1121	blastx.2		(AF019661) zeta proteasome chain; PSMA5 [Mus musculus]	gb AAC69149.1	99% 77%	171 473	470 652
HCOOU56	HCOOU56 R	1122	blastx.2		(AF143815) ribosomal protein [Bos taurus]	gb AAD33912.1 AF143815_1	55% 62% 52%	30 233 698	515 406 748
HCOOW7	HCOOW72 R	1123	blastx.2		keratin 18 [Homo sapiens]	gb AAA59461.1	78%	49	552
HCOOX48	HCOOX48 R	1126	blastx.2		(AF095770) PTH-responsive osteosarcoma D1 protein [Homo sapiens]	gb AAD25980.1 AF095770_1	87% 83%	218 330	310 365
HCOOY43	HCOOY43 R	1127	blastx.2		THIOREDOXIN PEROXIDASE 1 (THIOREDOXIN-DEPENDENT PEROXIDE 1 (NATURAL KILLER CELL ENHANCING FACTOR B) (NKEF-B).	sp P32119 TDX1_HUMAN	91%	22	426
HCOPB03	HCOPB03R	1129	blastx.2		ribosomal protein L19 - rat	pir A56846 A56846	98% 62%	11 367	367 573

HCOPC45	HCOPC45R	1130	blastx.2	homologue of yeast IPP isomerase [Homo sapiens]	emb CAA34890.1	96%	3	89
HCOPD67	HCOPD67R	1131	blastx.2	ubiquitin conjugating-protein [Oryctolagus cuniculus]	gb AAA31492.1	91%	104	541
HCOPE27	HCOPE27R	1132	blastx.2	serine protease homolog=NES1 [human, mammary epithelial cells, 76N, Peptide, 276 aa] [Homo sapiens]	gb AAB46780.1	99%	2	400
HCOP109	HCOP109R A	1134	blastx.2	fused; toxic gene [synthetic construct]	emb CAA67127.1	77%	62	310
HCOPO34	HCOPO34R	1136	blastx.2	(AF026246) HERV-E envelope glycoprotein [Homo sapiens]	gb AAC52076.1	65%	122	337
HCOPO88	HCOPO88R	1138	blastx.2	'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	74%	4	507
HCOPV41	HCOPV41R	1139	blastx.2	MEMD protein [Homo sapiens]	emb CAA71256.1	97%	3	593
HCOPZ15	HCOPZ15R	1140	blastx.2	(AL031228) dJ1033B10.9 (Short-chain alcohol dehydrogenase family member (HKE6, RING2)) [Homo sapiens]	emb CAA20237.1	96% 83%	7 572	579 625

HCOQA38	HCOQA38 R	1141	blastx.2	sapiens] hBD-1 [Homo sapiens]	emb CAA63405.1	100%	68	271
HCOQB12	HCOQB12 R	1143	blastx.2	(AC005600) tuberin [Homo sapiens]	gb AAC34210.1	100% 84%	4 308	309 346
HCOQD29	HCOQD29 R	1147	blastx.2	S3 ribosomal protein [human, colon, Peptide, 243 aa] [Homo sapiens]	gb AAB19349.1	93% 55% 60%	16 552 632	588 707 730
HCOQD38	HCOQD38 R	1148	blastx.2	HMG1 protein (AA 1 - 215) [Bos taurus]	emb CAA31284.1	95%	112	636
HCOQD49	HCOQD49 R	1149	blastx.2	H+-transporting ATP synthase (EC 3.6.1.34) gamma chain precursor - bovine	pir A32019 PWBOG	89% 65%	35 513	532 692
HCOQG37	HCOQG37 R	1151	blastx.2	1-8D [Homo sapiens]	emb CAA40625.1	99% 100%	51 386	386 409
HCOQH46	HCOQH46 R	1153	blastx.2	mucin MUC5B [Homo sapiens]	gb AAC51343.1	100% 64%	95 324	343 365
HCOQJ06	HCOQJ06R	1156	blastx.2	37kD Laminin receptor precursor /p40 ribosomal associated protein [Gallus gallus]	emb CAA64147.1	85% 58%	26 352	361 474
HCOQJ07	HCOQJ07R	1157	blastx.2	laminin-binding protein [Homo sapiens]	gb AAA36161.1	88%	6	656
HCOQJ79	HCOQJ79R	1159	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	83%	1	471
HCOQK86	HCOQK86 R	1160	blastx.2	(AF038129) polyubiquitin [Ovis]	gb AAB92373.1	94% 94%	4 4	456 456

HCOQL87	HCOQL87 R	1161	blastx.2	glutathione S- transferase-pi [Homo sapiens]	gb AAA56823.1	93%	28	456
HCOQM87	HCOQM87 R	1162	blastx.2	DRPLA protein [Mus musculus]	dbj BAA13450.1	52%	3	278
HCOQO79	HCOQO79 R	1163	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	47%	17	307
HCOQP32	HCOQP32R	1164	blastx.2	elongation factor 1- alpha [Homo sapiens]	gb AAA52367.1	99%	2	574
HCOQS11	HCOQS11R	1165	blastx.2	acidic ribosomal phosphoprotein (P2) [Homo sapiens]	gb AAA36472.1	61%	561	608
HCOQU92	HCOQU92 R	1167	blastx.2	protein translocation complex beta subunit [Canis familiaris]	gb AAA19639.1	95%	15	149
HCOQV27	HCOQV27 R	1168	blastx.2	B4-2 protein [Homo sapiens]	gb AAA85576.1	64%	151	381
HCOQX38	HCOQX38 R	1169	blastx.2	catechol O- methyltransferase [Homo sapiens]	emb CAA81263.1	78%	102	398
HCOQY33	HCOQY33 R	1170	blastx.2	(AB000910) ribosomal protein [Sus scrofa]	dbj BAA19210.1	100%	91	270
HCOQZ86	HCOQZ86	1173	blastx.2	MHC class II HLA-	gb AAA59782.1	100%	272	301
						96%	3	239
						96%	32	421
						91%	421	489
						80%	495	539
						100%	1	30
						96%	49	321
						92%	106	357

	R			DR-beta-1 [Homo sapiens]		77%	351	470
HCORB20	HCORB20 R	1175	blastx.2	(AB012122) TIP49 [Homo sapiens]	dbj BAA28169.1	98%	68	292
HCORB66	HCORB66 R	1177	blastx.2	ribosomal protein L28 [Homo sapiens]	gb AAA85657.1	94%	75	482
HCORI18	HCORI18R	1178	blastx.2	hnRNP B1 protein [Homo sapiens]	dbj BAA06031.1	100%	120	317
						100%	2	124
						56%	126	305
						49%	123	305
						50%	129	305
						44%	120	317
						43%	132	317
						39%	2	124
HCORI25	HCORI25R	1179	blastx.2	pm5 protein [Homo sapiens]	emb CAA40655.1	98%	3	419
HCQCR82	HCQCR82 R	1180	blastx.2	NADH dehydrogenase subunit 3 [Homo sapiens]	dbj BAA77672.1	91%	3	245
						90%	247	276
HCRME42	HCRME42 R	1181	blastx.2	IGF binding protein-2 [Sus scrofa]	gb AAC48728.1	87%	1	369
						59%	297	416
						47%	332	427
HDABR53	HDABR53 R	1182	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1	97%	38	463
HDTAQ74	HDTAQ74 R	1185	blastx.2	(AF112208) 13kDa differentiation-associated protein [Homo sapiens]	gb AAF17196.1 AF112208_1	61%	115	408
						90%	38	136
						53%	326	409
						100%	273	293
HDTPB08	HDTPB08R	1186	blastx.2	UbcH5C [Homo sapiens]	gb AAA91461.1	97%	255	470

HD TDB88	HD TDB88 R	1188	blastx.2	cytochrome c oxidase subunit 1 [Pan troglodytes]	dbj BAA85270.1	89% 88%	27 259	275 441
HE8QX44	HE8QX44R	1190	blastx.2	(AF010472) alpha- amidating monooxygenase [Homo sapiens]	gb AAD01439.1	93% 95% 80%	49 272 475	288 475 549
HE9QU94	HE9QU94R	1191	blastx.2	alligator Wilm's tumour protein [Alligator mississippiensis]	emb CAA59735.1	100%	3	170
HEAHF02	HEAHF02R	1192	blastx.2	(AC004044) predicted protein of unknown function [Arabidopsis thaliana]	gb AAD15346.1	37%	62	376
HEEAY40	HEEAY40R	1193	blastx.2	hypothetical protein 2 (rRNA external transcribed spacer) - 1	pir S12206 S12206	100%	3	128
HEGAF68	HEGAF68R	1194	blastx.2	URF 3 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24033.1	89% 89%	3 178	179 321
HFABK01	HFABK01R	1196	blastx.2	NADH dehydrogenase subunit 2 [Homo sapiens]	dbj BAA07291.1	80% 69%	2 186	190 284
HFIBG63	HFIBG63R	1198	blastx.2	cytokine SDF-1-beta [Homo sapiens]	gb AAA97434.1	96%	152	406
HFIBJ15	HFIBJ15R	1199	blastx.2	cytochrome oxidase subunit II [Homo sapiens]	gb AAA20843.1	93%	2	517
HFIXK57	HFIXK57R	1200	blastx.2	URF 3 (NADH dehydrogenase subunit)	emb CAA24033.1	90%	5	325



HFIZQ64	HFIZQ64R	1201	blastx.2	[Homo sapiens] (AK001601) unnamed protein product [Homo sapiens]	dbj BAA91782.1	100%	48	137
HFKKK36	HFKKK36 R	1202	blastx.2	neutral calponin [Homo sapiens]	dbj BAA12090.1	96%	3	86
HFPEC93	HFPEC93R	1203	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	87% 90%	66 1	527 66
HFPIX37	HFPIX37R	1204	blastx.2	(AL137696) hypothetical protein [Homo sapiens]	emb CAB70878.1	51% 41%	4 1	240 258
HFTDK36	HFTDK36R	1205	blastx.2	folate-binding protein precursor [Homo sapiens]	gb AAA35822.1	100% 38%	90 341	290 514
HFVIB28	HFVIB28R	1206	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	70%	26	175
HFXGR60	HFXGR60R	1207	blastx.2	(AF034746) LNXp70 [Mus musculus]	gb AAC40076.1	56%	347	57
HHAUD07	HHAUD07 R	1208	blastx.2	GTP-binding regulatory protein Gs alpha chain isoform - 1	pir JH0813 JH0813	75%	337	459
HBBFO21	HBBFO21R	1209	blastx.2	URF 3 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24033.1	83% 82% 64%	3 248 205	236 328 246
HHEVG50	HHEVG50 R	1210	blastx.2	CAG-isl 7 [Homo sapiens]	gb AAC16021.1	93%	13	474
HHFGQ65	HHFGQ65 RA	1211	blastx.2	(AJ249731) putative G8.1 protein [Homo]	emb CAB56506.1	81% 77%	107 25	319 129

HHSFG15	HHSFG15R	1213	blastx.2	sapiens] (AF014888) NADH dehydrogenase subunit 2 [Homo sapiens]	gb AAC25447.1	78%	3	743
HHSGP15	HHSGP15R	1214	blastx.2	cytochrome oxidase subunit III [Talpa europaea]	emb CAB71165.1	74% 62%	2 517	529 717
HHSQG17	HHSQG17 R	1215	blastx.2	cytochrome b [Homo sapiens]	gb AAA19775.1	89%	79	435
HKBAD05	HKBAD05 R	1216	blastx.2	(AB015335) HRHFB2072 [Homo sapiens]	dbj BAA88116.1	84% 100%	61 324	351 356
HKZAE07	HKZAE07R	1218	blastx.2	Na <sup>+</sup> , K <sup>+</sup> -ATPase beta- subunit precursor [Sus scrofa]	gb AAA31002.1	100%	1	138
HKZAI14	HKZAI14R	1220	blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	100%	3	368
HKZAI68	HKZAI68R A	1221	blastx.2	antigen [Homo sapiens]	gb AAA02999.1	100%	2	79
HKZAQ39	HKZAQ39 R	1222	blastx.2	ubiquitin-conjugating enzyme UbcH7 [Homo sapiens]	emb CAA63538.1	100%	19	480
HKZAR58	HKZAR58 R	1223	blastx.2	(AC005545) AP-3 complex delta subunit, partial CDS [Homo 1]	gb AAC34214.1	98%	3	266
HKZAS59	HKZAS59R	1224	blastx.2	ATP synthase beta subunit precursor [Homo sapiens]	gb AAA51809.1	100%	1	462
HKZAS64	HKZAS64R	1225	blastx.2	nephropontin [Homo sapiens]	gb AAA17675.1	98%	1	276

HKZAS84	HKZAS84R	1226	blastx.2	sapiens] calpain II regulatory subunit (EC 3.4.22.17) [Bos taurus]	gb AAA30422.1	100%	2	103
HKZAV69	HKZAV69 R	1227	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	100%	8	412
HKZAV72	HKZAV72 R	1228	blastx.2	fibronectin precursor [Homo sapiens]	emb CAA26536.1	100%	2	163
HKZBB22	HKZBB22R	1230	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	100%	8	520
HKZBS89	HKZBS89R	1231	blastx.2	ferritin heavy subunit [Homo sapiens]	gb AAA35830.1	100%	1	381
HLDDQQ80	HLDDQQ80 R	1232	blastx.2	ATPase subunit 6 [Papio hamadryas]	emb CAA76999.1	74% 54%	2 153	142 257
HLDXE19	HLDXE19R	1233	blastx.2	neuron-restrictive silencer factor [Homo sapiens]	gb AAC50115.1	80%	17	187
HLICD55	HLICD55R	1234	blastx.2	glutamine:fructose-6- phosphate amidotransferase [Homo sapiens]	gb AAA58502.1	96%	56	148
HLJBI37	HLJBI37R	1236	blastx.2	H(+)-transporting ATP synthase [Bos taurus]	emb CAA45865.1	100% 65% 80% 60% 88%	165 329 83 481 450	335 610 187 555 476
HLTHA47	HLTHA47R	1237	blastx.2	100 kDa protein [Rattus norvegicus]	emb CAA45756.1	82% 88%	187 380	393 406

HLTJA50	HLTJA50R	1238	blastx.2	(AK002071) unnamed protein product [Homo sapiens]	dbj BAA92068.1	63%	334	723
HLYDI57	HLYDI57R	1241	blastx.2	URF 1 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24026.1	90%	2	565
HMCFO19	HMCFO19R	1242	blastx.2	hypothetical 18K protein - goldfish mitochondrion	pir JC1348 JC1348	46%	104	361
HMCIZ44	HMCIZ44R	1243	blastx.2	URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	86%	1	342
HMCJE25	HMCJE25R	1244	blastx.2	cytochrome oxidase subunit I [Hyllobates lar]	emb CAA67630.1	74%	377	517
HMSPB25	HMSPB25R	1245	blastx.2	alcohol dehydrogenase [Homo sapiens]	gb AAA51596.1	40%	207	389
HMVBB04	HMVBB04R	1246	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain I - western lowland I	pir C59153 C59153	82%	3	314
HNAAE01	HNAAE01R	1247	blastx.2	(AP000616) similar to RING-H2 finger protein RHA1a (AF078683) [Oryza sativa]	dbj BAA85438.1	77%	298	351
HNBUI37	HNBUI37R	1249	blastx.2	smooth muscle myosin	gb AAB28951.1	75%	315	172
						86%	73	201
						67%	95	196
						67%	96	197
						100%	90	155
						100%	89	154
						100%	92	157
						100%	91	156
						100%	93	158
						100%	94	159
						100%	91	153
						95%	77	289

	R				heavy chain isoform SM1 [human, umbilical 1				
HNBVL57	HNBVL57 R	1250	blastx.2		growth-arrest-specific protein 2 [Homo sapiens]	gb AAC52058.1	74% 55%	242 70	514 384
HNHBC18	HNHBC18 R	1251	blastx.2		OS9 [Homo sapiens]	gb AAC39523.1	100% 41% 46% 35%	1 245 315 244	243 403 404 435
HNJFE85	HNJFE85R	1252	blastx.2		(AL031670) dJ68IN20.2 (similar to FTLL1(ferritin, light 1 (AF044957) NADH:ubiquinone oxidoreductase B15 subunit [Homo sapiens]	emb CAB43181.1	97%	224	451
HNKCO29	HNKCO29 R	1253	blastx.2		acidic ribosomal phosphoprotein (P1) [Homo sapiens]	gb AAD05421.1	95%	52	390
HNOAA22	HNOAA22 R	1254	blastx.2		actin 2 protein [Strongylocentrotus purpuratus]	gb AAA36471.1	91%	114	422
HNOAB88	HNOAB88 R	1257	blastx.2		unnamed protein product [unidentified]	gb AAA30032.1	83% 81%	3 509	491 541
HNOAC15	HNOAC15 R	1259	blastx.2		ribosomal protein L21 [Homo sapiens]	emb CAB42187.1	93%	1	87
HNOAE50	HNOAE50 R	1260	blastx.2		ribosomal protein L26 [Homo sapiens]	emb CAA61582.1	98%	98	577
HNOAE65	HNOAE65 R	1261	blastx.2			emb CAA49189.1	100%	101	535

HNOAF22	HNOAF22 R	1262	blastx.2	ribosomal protein L21 [Homo sapiens]	emb CAA61582.1	100%	76	555
HNOAG34	HNOAG34 R	1264	blastx.2	collagen alpha 1(I) chain - bovine (fragments)	pir A91193 CGBO1S	64%	54	239
						72%	1	108
						75%	221	319
						37%	3	239
						67%	221	313
						39%	21	239
						44%	54	236
						36%	15	236
						37%	15	236
						44%	72	239
						39%	21	239
						42%	12	236
						38%	3	236
						38%	15	239
						45%	84	236
						48%	99	239
						35%	15	236
						41%	54	239
						35%	6	239
						36%	3	239
						62%	233	319
						42%	69	239
						47%	93	236
						36%	15	239
						38%	3	200
						45%	93	236
						35%	15	239
						38%	54	239

							44%	93	239
							41%	6	236
							37%	3	239
							41%	69	236
							35%	6	236
							34%	15	239
							44%	84	239
							48%	218	322
							35%	6	239
							36%	21	236
							33%	15	239
							36%	3	239
							32%	3	239
							48%	218	319
							36%	54	239
							52%	227	322
							35%	15	236
							50%	233	328
							54%	233	328
							51%	227	322
							46%	111	239
							47%	218	319
							33%	21	236
							53%	233	322
							57%	233	316
							42%	114	239
							57%	233	316
							53%	233	316
							50%	227	328
							51%	227	328

							38%	69	239
							33%	3	236
							53%	233	316
							59%	1	96
							36%	93	239
							45%	233	358
							51%	227	319
							50%	227	322
							45%	221	319
							47%	218	319
							51%	233	319
							45%	212	316
							46%	227	316
							46%	221	316
							50%	233	322
							44%	221	322
							44%	230	328
							45%	227	328
							44%	1	108
							38%	93	239
							45%	227	322
							50%	227	316
							50%	233	316
							50%	227	316
							50%	230	319
							43%	227	319
							46%	233	322
							46%	221	316
							48%	233	319
							46%	227	316



					50%	233	322
					51%	227	316
					50%	233	316
					41%	227	316
					50%	233	316
					46%	233	322
					46%	227	322
					44%	242	328
					41%	212	319
					46%	227	316
					46%	233	322
					45%	1	105
					44%	230	322
					39%	1	123
					42%	209	322
					63%	260	316
					45%	227	319
					44%	1	105
					41%	1	108
					43%	227	316
					42%	1	114
					42%	1	105
					44%	1	105
					46%	233	316
					39%	221	316
					45%	1	93
					45%	227	322
					41%	1	93
					38%	1	108
					46%	233	322

43%	233	322
42%	221	316
41%	1	108
39%	1	114
38%	1	108
40%	1	108
40%	212	316
41%	221	322
36%	1	108
38%	1	108
43%	233	328
38%	227	316
43%	227	316
43%	233	322
40%	221	316
37%	1	105
38%	1	108
43%	227	316
38%	1	93
47%	227	316
41%	1	93
40%	221	316
38%	227	316
38%	227	316
41%	1	93
38%	1	93
36%	1	108
38%	218	316
63%	260	316
37%	1	105

						35%	1	108
						36%	1	108
						33%	1	108
						38%	227	316
						43%	227	316
						40%	221	316
						38%	1	108
						64%	321	362
						34%	1	105
						41%	1	108
						41%	1	108
						35%	1	93
						31%	1	123
						40%	212	322
						50%	1	66
						36%	1	105
						41%	1	93
						35%	1	93
						37%	1	105
						37%	1	105
						36%	1	108
						37%	221	328
						34%	1	105
						36%	212	316
						39%	233	316
						38%	1	93
						40%	1	105
						38%	1	93
						38%	1	108
						36%	1	108

							41%	1	93
							38%	1	108
							33%	1	108
							31%	1	114
							37%	1	105
							33%	1	108
							40%	233	322
							35%	1	93
							31%	1	105
							34%	1	105
							37%	230	316
							40%	227	316
							38%	1	93
							33%	1	108
							37%	1	96
							39%	218	316
							31%	1	123
							38%	233	316
							36%	1	105
							38%	1	108
							39%	233	316
							40%	233	322
							38%	1	93
							36%	1	108
							37%	1	105
							36%	233	322
							32%	1	93
							33%	1	108
							30%	1	108
							35%	1	93

							33%	1	108
							30%	1	108
							38%	218	316
							35%	227	316
							38%	1	108
							31%	1	105
							35%	1	93
							34%	233	319
							36%	233	322
							39%	221	322
							35%	233	316
							36%	1	66
							35%	233	316
							34%	233	319
							38%	238	71
							34%	250	20
							45%	357	226
							38%	238	86
							44%	357	214
							48%	321	223
							39%	235	77
							50%	318	223
							48%	318	226
							37%	238	50
							35%	238	71
							39%	199	71
							47%	238	86
							46%	321	226
							47%	318	214
							45%	318	214

[illegible]

						223
						98
						71
						214
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						71
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						226
						217
						223
						223
						217

[illegible]



HNOAH67	HNOAH67 R	1266	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	38% 33%	56 65	3 3
HNOAJ67	HNOAJ67R	1267	blastx.2	(AB000911) ribosomal protein [Sus scrofa]	dbj BAA19211.1	100%	69	524
HNOAL51	HNOAL51 R	1270	blastx.2	(AD001528) spermidine aminopropyltransferase [Homo sapiens]	gb AAB61308.1	72% 75%	70 3	255 74
HNOAO71	HNOAO71 R	1273	blastx.2	MAP kinase kinase [Homo sapiens]	gb AAA36318.1	98%	62	283
HNOAP21	HNOAP21 R	1274	blastx.2	Q1Z 7F5 [Homo sapiens]	gb AAA36021.1	91%	20	667
HNOAQ24	HNOAQ24 R	1275	blastx.2	epoxide hydrolase [Homo sapiens]	gb AAA52390.1	89%	2	571
HNOAQ47	HNOAQ47 R	1276	blastx.2	TAXREB107 [Homo sapiens]	dbj BAA04491.1	99%	1	618
HNOAR85	HNOAR85 R	1278	blastx.2	(AF161378) HSPC260 [Homo sapiens]	gb AAF28938.1 AF1 61378.1	88% 92%	287 99	562 290
HNOAS07	HNOAS07 R	1279	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	97% 97%	96 1	521 108
HNOAS36	HNOAS36 R	1280	blastx.2	proteoglycan core protein [Homo sapiens]	gb AAB00774.1	100%	3	254
HNOAS92	HNOAS92 R	1281	blastx.2	glutathione transferase M1 [Homo sapiens]	gb AAA59203.1	100%	2	385
HNOAT76	HNOAT76 R	1283	blastx.2	(AB016193) transcription factor	dbj BAA36616.1	100%	2	187

HNOAV91	HNOAV91 R	1284	blastx.2	[Homo sapiens] ribosomal protein L28 [Homo sapiens]	gb AAA85657.1	99%	29	439
HNOBE83	HNOBE83 R	1286	blastx.2	translation initiation factor eIF3 p40 subunit [Homo sapiens]	gb AAD03465.1	100% 60% 79%	2 525 694	598 692 765
HNOBV55	HNOBV55 RA	1287	blastx.2	ribosomal protein L12 [Homo sapiens]	gb AAA36157.1	100% 74%	171 65	506 217
HNOCE63	HNOCE63 R	1288	blastx.2	(AF083217) WD repeat protein WDR3 [Homo sapiens]	gb AAD45865.1 AF0 83217_1	68% 30% 45%	2 442 393	388 819 557
HNOCL43	HNOCL43 R	1289	blastx.2	alpha-1 type III collagen [Homo sapiens]	gb AAA52002.1	98%	2	193
HNOCN02	HNOCN02 R	1290	blastx.2	TARBP-b gene product [Homo sapiens]	gb AAA91344.1	91%	7	666
HNOCN10	HNOCN10 R	1291	blastx.2	(AF043254) heat shock protein 75 [Homo sapiens]	gb AAC02679.1	90% 40% 100%	4 488 435	423 622 464
HNOCR44	HNOCR44 R	1292	blastx.2	ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1	80%	3	440
HNOCU03	HNOCU03 R	1293	blastx.2	translational elongation factor-1 alpha [Danio rerio]	emb CAA54771.1	74%	40	360
HNODG11	HNODG11 R	1295	blastx.2	tumor protein (AA 1 - 172) [Homo sapiens]	emb CAA34200.1	71% 70% 66% 85%	93 262 482 552	362 498 580 611

HNOJA93	HNOJA93R	1298	blastx.2	general transcription factor [Homo sapiens]	emb CAA37375.1	100%	1	453
HNOJB10	HNOJB10R	1299	blastx.2	(AF1110731) antioxidant enzyme B166 [Homo sapiens]	gb AAF03750.1 AF110731.1	98% 53% 54%	11 384 418	376 521 480
HNOJB57	HNOJB57R	1300	blastx.2	midline [Homo sapiens]	dbj BAA01457.1	74%	92	520
HNOJH48	HNOJH48R	1304	blastx.2	(AF077054) unr protein [Homo sapiens]	gb AAD27787.1 AF077054.1	100%	2	283
HNOJH52	HNOJH52R	1305	blastx.2	S-adenosylhomocysteine hydrolase [Homo sapiens]	gb AAA51681.1	100%	6	179
HNOJI82	HNOJI82R	1306	blastx.2	ubiquitin [synthetic construct]	gb AA57047.1	94%	22	489
HNOJI85	HNOJI85R	1307	blastx.2	(AF035718) mesoderm-specific basic-helix-loop-helix protein; Pod-1 [Homo sapiens]	gb AAC62514.1	86%	13	513
HNOJJ20	HNOJJ20R	1308	blastx.2	ribosomal protein L23a [Homo sapiens]	gb AAA03341.1	98%	1	261
HNOJJ26	HNOJJ26R	1309	blastx.2	plasma gelsolin [Homo sapiens]	emb CAA28000.1	73%	2	568
HNOJK66	HNOJK66R	1310	blastx.2	von Willebrand factor prepropeptide [Homo sapiens]	gb AAB59512.1	90% 100% 26% 25% 25% 26%	1 408 16 13 307 91	459 491 396 324 402 405

HNOJM64	HNOJM64 R	1312	blastx.2	alpha-tubulin III [Cricetulus griseus]	gb AAA37026.1	69%	218	256
						27%	319	399
						38%	343	402
						32%	16	171
HNOJO55	HNOJO55R	1313	blastx.2	Protein sequence and annotation available soon via Swiss-Prot; 1 [Homo sapiens]	emb CAA62188.1	97%	3	428
						93%	423	277
						100%	134	9
						66%	134	9
						53%	423	277
						40%	423	268
						48%	131	9
						36%	143	3
						37%	423	289
						39%	402	286
						44%	116	9
						30%	423	280
						33%	128	12
						28%	128	12
						23%	128	3
						30%	128	12
						42%	408	310
						32%	423	289
						35%	426	265
						27%	137	3
						37%	396	280
						30%	408	280
						22%	146	12
						35%	119	9
						41%	357	280

HNOJP42	HNOJP42R	1314	blastx.2	envelope protein [Homo sapiens]	gb AAA88027.1	28%	414	280
						34%	116	12
HNOJQ22	HNOJQ22R	1315	blastx.2	(AJ224875) glucosyltransferase [Homo sapiens]	emb CAA12176.1	37%	381	280
						25%	423	280
HNOKA20	HNOKA20 R	1316	blastx.2	signal recognition particle subunit 14 [Homo sapiens]	emb CAA51838.1	23%	426	310
						27%	116	9
HNOKG34	HNOKG34 R	1318	blastx.2	hnRNP core protein A1 [Homo sapiens]	emb CAA56072.1	35%	402	286
						35%	426	298
HNOKI89	HNOKI89R	1323	blastx.2	(AF009368) Luman [Homo sapiens]	gb AAB69652.1	28%	423	277
						28%	116	12
HNOKT24	HNOKT24 R	1326	blastx.2	ribosomal protein L6 [Homo sapiens]	emb CAA49188.1	39%	158	93
						31%	420	310
HNOKU52	HNOKU52	1327	blastx.2	ribosomal protein L29	gb AAC50499.1	35%	140	99
						25%	128	12
						43%	117	70
						71%	6	302
						100%	217	510
						100%	1	219
						97%	38	259
						100%	43	510
						31%	52	324
						100%	2	370
						89%	74	457
						68%	3	191
						98%	33	509

HNOKV82	R	HNOKV82	1328	blastx.2	[Homo sapiens] (AF081484) alpha-tubulin isoform 1 [Homo sapiens]	gb AAC31959.1	100%	3	488
HNORA56	R	HNORA56	1330	blastx.2	MHC class I A [Pan troglodytes]	gb AAA88855.1	93% 91% 96%	2 348 289	289 494 363
HNORB68	R	HNORB68	1331	blastx.2	high mobility group protein 17 [Homo sapiens]	gb AAA52678.1	95%	4	186
HNORC14	R	HNORC14	1332	blastx.2	hevin [Homo sapiens]	emb CAA57650.1	90%	2	496
HNORD11	R	HNORD11	1333	blastx.2	ribosomal protein L5 [Rattus norvegicus]	gb AAA42074.1	93% 91%	179 7	394 183
HNORE65	R	HNORE65	1334	blastx.2	ORF [Pan troglodytes]	dbj BAA01980.1	83%	77	355
HNORF03		HNORF03R	1335	blastx.2	(AL031228) dJ1033B10.2 (WD40 protein BING4 (similar to S. 1 sapiens])	emb CAA20229.1	89% 83% 90%	70 529 357	357 582 386
HNORF04		HNORF04R	1336	blastx.2	(AF196481) RING finger protein; FXY2 [Homo sapiens]	gb AAF07341.1 AF196481_1	91%	4	144
HNORF05		HNORF05R	1337	blastx.2	human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1	98% 98%	2 321	319 485
HNORF13		HNORF13R	1338	blastx.2	TIMP [Homo sapiens]	emb CAA00898.1	74%	31	615
HNORH03	R	HNORH03	1339	blastx.2	(AF110731) antioxidant enzyme	gb AAF03750.1 AF110731_1	95%	3	641

HNORH05	HNORH05 R	1340	blastx.2	B166 [Homo sapiens] ubiquitin conjugating- protein [Oryctolagus cuniculus]	gb AAA31492.1	100%	43	498
HNORJ08	HNORJ08R	1342	blastx.2	ATPase [Mus musculus]	gb AAA88243.1	90% 90% 38%	3 308 514	350 496 606
HOCMA02	HOCMA02 RA	1344	blastx.2	(AF016365) hexokinase I [Homo sapiens]	gb AAC15862.1	100% 65% 86% 50%	3 3 490 490	497 497 558 555
HOCMC08	HOCMC08 R	1347	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	89%	19	423
HOCMF27	HOCMF27 R	1349	blastx.2	sorbitol dehydrogenase [Homo sapiens]	gb AAA66064.1	100%	3	395
HOCMG37	HOCMG37 R	1352	blastx.2	chaperonin (HSP60) [Homo sapiens]	gb AAA36022.1	98% 36%	4 326	351 424
HOCMI62	HOCMI62R	1353	blastx.2	S19 ribosomal protein [Homo sapiens]	gb AAA89070.1	67%	64	384
HOCMJ47	HOCMJ47R	1354	blastx.2	ribosomal protein L18a [Homo sapiens]	gb AAC18781.1	98% 100%	4 413	378 439
HOCMK20	HOCMK20 R	1355	blastx.2	stathmin [Xenopus laevis]	emb CAA50562.1	77% 64%	80 363	379 500
HOCML06	HOCML06 R	1356	blastx.2	glyceraldehyde 3- phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	97%	123	707

HOCML66	HOCML66 R	1357	blastx.2	(AK000779) unnamed protein product [Homo sapiens]	dbj BAA91374.1	85% 76%	2 217	211 330
HOCMM5 2	HOCMM52 R	1358	blastx.2	glutathione transferase T1 [Homo sapiens]	emb CAA55935.1	98% 100%	133 24	594 137
HOCMS75	HOCMS75 R	1360	blastx.2	plakoglobin [Homo sapiens]	emb CAA92522.1	88%	6	500
HOCMS87	HOCMS87 R	1361	blastx.2	insulin-like growth factor binding protein 5 [Homo sapiens]	gb AAA53505.1	70%	151	615
HOCMY53	HOCMY53 R	1363	blastx.2	(AF028832) Hsp89- alpha-delta-N [Homo sapiens]	gb AAC25497.1	97% 100% 43%	97 309 45	312 416 113
HOCMY61	HOCMY61 R	1364	blastx.2	ribosomal protein S15a [Rattus norvegicus]	emb CAA54918.1	99%	80	466
HOCMY79	HOCMY79 R	1365	blastx.2	fau [Homo sapiens]	emb CAA46716.1	100% 100%	317 115	511 315
HOCOC38	HOCOC38 R	1366	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT)	sp Q16465 YZA1_H UMAN	100%	388	23
HOCOC94	HOCOC94 R	1368	blastx.2	protein phosphatase 2A (AA 1 - 309) [Oryctolagus cuniculus]	emb CAA68732.1	98% 84% 66%	3 490 566	485 567 628
HOCOF35	HOCOF35R	1369	blastx.2	(AF059486) putative actin-binding protein DOC6 [Mus musculus]	gb AAC31808.1	51% 81% 47% 29% 28% 31%	224 100 495 31 511 139	706 279 647 273 711 282



HOCOF50	HOCOF50R	1370	blastx.2	'FKBP52; 52 kD FK506 binding protein' [Homo sapiens]	gb AAA36111.1	72%	2	460
						46%	38	532
						55%	396	632
						43%	472	561
HOCOO62	HOCOO62 R	1371	blastx.2	Ro ribonucleoprotein autoantigen (Ro/SS-A) precursor [Homo sapiens]	gb AAA36582.1	77%	42	596
HOCOP52	HOCOP52R	1372	blastx.2	spliceosomal protein [Homo sapiens]	gb AAA60300.1	67%	2	631
						34%	68	301
						39%	388	621
						30%	441	626
						42%	522	620
HOCOQ13	HOCOQ13 R	1373	blastx.2	probable transmembrane protein TMC - human	pir S70029 S70029	94%	94	474
						75%	482	541
HOCOT70	HOCOT70 R	1375	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	97%	8	412
HOCPF69	HOCPF69R	1377	blastx.2	(AJ001701) deoxyhypusine synthase [Homo sapiens]	emb CAA04940.1	96%	1	351
						72%	347	412
						50%	396	455
HOCPH40	HOCPH40R	1380	blastx.2	3-oxoacyl-CoA thiolase propeptide (424 AA) [Homo sapiens]	emb CAA31412.1	100%	2	217
HOCPH44	HOCPH44R	1381	blastx.2	antiserotory factor-1 [Homo sapiens]	gb AAB54057.1	96%	3	275
						48%	286	408
HOCPI53	HOCPI53R	1383	blastx.2	collagen (VI) alpha-1 chain [Homo sapiens]	emb CAA67576.1	76%	41	322
						56%	225	365
						100%	4	39

HOCPM39	HOCPM39 R	1385	blastx.2	pinin [Bos taurus]	gb AAB48302.1	86%	23	136
HOCPP65	HOCPP65R	1386	blastx.2	histone H2A.F [Gallus gallus]	emb CAA32094.1	85%	63	314
HOCPP80	HOCPP80R	1387	blastx.2	isoleucyl-tRNA synthetase [Homo sapiens]	gb AAA80153.1	53% 88%	350 3	445 563
HOCPPQ59	HOCPPQ59R	1389	blastx.2	(AF006012) dishevelled 2 [Homo sapiens]	gb AAB65243.1	84% 100%	38 5	394 52
HOCPPQ66	HOCPPQ66R	1390	blastx.2	clathrin-associated protein 17 [Rattus norvegicus]	gb AAA40742.1	100%	2	427
HOCPPQ75	HOCPPQ75R	1391	blastx.2	TMMP [Homo sapiens]	emb CAA00898.1	86%	26	646
HOCPR01	HOCPR01R	1392	blastx.2	alpha subunit (aa 1- 394) [Bos taurus]	emb CAA27137.1	100%	39	536
HOCPR29	HOCPR29R	1393	blastx.2	translation initiation factor [Homo sapiens]	emb CAA56074.1	91% 96%	2 1	37 579
HOCPR53	HOCPR53R	1395	blastx.2	P311 HUM [Homo sapiens]	gb AAA74903.1	48% 40% 77%	603 575 86	776 679 268
HOCPR77	HOCPR77R	1397	blastx.2	similar to emb-5 protein of C.elegans. [Homo sapiens]	dbj BAA11479.1	92%	1	249
HOCPS35	HOCPS35R	1399	blastx.2	(AB017018) JKTBP2 [Homo sapiens]	dbj BAA75239.1	100%	3	203
HOCPU03	HOCPU03R	1400	blastx.2	dihydropyridine- sensitive L-type calcium channel alpha-2 subunit	gb AAA41088.1	65% 54%	7 441	456 512

HOCPU30	HOCPU30R	1401	blastx.2	[Rattus norvegicus] KDEL receptor [Homo sapiens]	emb CAA39371.1	66% 69% 61%	342 139 242	518 267 334
HOCPU68	HOCPU68R	1402	blastx.2	preprocathepsin B [Homo sapiens]	gb AAA52129.1	98%	3	269
HOCPU29	HOCPU29R	1403	blastx.2	thrombin inhibitor [Homo sapiens]	emb CAA80373.1	58%	243	593
HOCPU67	HOCPU67R	1404	blastx.2	serine/threonine-protein kinase PRP4m [Mus musculus]	gb AAB03269.1	88% 87%	58 345	327 518
HOCPU72	HOCPU72R	1405	blastx.2	(AF132952) CGI-18 protein [Homo sapiens]	gb AAD27727.1 AF132952.1	91% 84%	33 184	203 318
HOCPU56	HOCPU56R	1406	blastx.2	ARL3 [Homo sapiens]	gb AAA21654.1	100%	2	502
HOCPU81	HOCPU81R	1408	blastx.2	cysteine protease Mch2 isoform alpha [Homo sapiens]	gb AAC50168.1	91%	2	739
HOCPU01	HOCPU01R	1409	blastx.2	(AF052514) thymus specific serine peptidase [Homo sapiens]	gb AAC33563.1	73% 50% 87% 28%	129 113 566 483	440 571 589 587
HOCPU76	HOCPU76R	1411	blastx.2	(AF002705) beta prime COP [Rattus norvegicus]	gb AAB88018.1	99% 77%	2 423	421 524
HOCQA26	HOCQA26R	1413	blastx.2	interferon-inducible protein [Homo sapiens]	emb CAA59337.1	100% 71% 47%	205 410 360	378 571 473
HOCQA37	HOCQA37	1414	blastx.2	lactoyl glutathione	dbj BAA02572.1	100%	136	276

HOCQA86	R				lyase [Homo sapiens]			82%	63	131
HOCQA86	HOCQA86	1415	blastx.2		proteoglycan core protein [Homo sapiens]		gb AAB00774.1	91%	84	392
HOCQB18	R				general transcription factor [Homo sapiens]		emb CAA37375.1	99%	3	473
HOCQB48	HOCQB48	1417	blastx.2		Na <sup>+</sup> -independent neutral and basic amino acid transporter [Homo sapiens]		dbj BAA11541.1	97%	4	555
HOCQC71	R				calcium binding protein [Homo sapiens]		dbj BAA23325.1	98%	126	419
HOCQD10	R				ribosomal protein L12 [Homo sapiens]		gb AAA36157.1	88%	152	637
HOCQD19	R				retinoid X receptor alpha [Rattus norvegicus]		gb AAA42093.1	80% 56%	3 424	392 567
HOCQD42	R				(AF095257) heterogeneous nuclear ribonucleoprotein C1/C2; hnRNP C1/C2 [Mus musculus]		gb AAD03717.1	86% 65% 59% 53%	1 299 474 474	294 475 614 599
HOCQD45	R				glyceraldehyde-3-phosphate dehydrogenase (EC 1.2.1.12), euthermic tissue - desert jerboa		pir JC5370 JC5370	91% 54% 100%	92 495 457	463 785 492
HOCQE35	R				ribosomal protein L7a large subunit [Homo sapiens]		gb AAA60282.1	74%	6	437

HOCQG94	HOCQG94 R	1426	blastx.2	actin [Brugia malayi]	emb CAB06627.1	62%	9	629
HOCQH81	HOCQH81 R	1427	blastx.2	(AF038952) cofactor A protein [Homo sapiens]	gb AAC39866.1	58%	254	652
HOCQI31	HOCQI31R	1428	blastx.2	prostacyclin- stimulating factor, PGI2-stimulating factor, PSF 1 sapiens]	gb AAB32370.1	91%	144	242
HOCQM24	HOCQM24 R	1430	blastx.2	hnRNPCore protein A1 [Homo sapiens]	emb CAA56072.1	100%	1	324
HODAF78	HODAF78 R	1431	blastx.2	(AC004638) amyloid precursor protein- binding protein 1 (APP-B1) [Homo sapiens]	gb AAC23784.1	55%	8	274
HODCZ52	HODCZ52 R	1434	blastx.2	tissue-specific secretory protein [synthetic construct]	emb CAA01433.1	66%	26	133
HODDI57	HODDI57R	1435	blastx.2	(AF113514) histone acetyltransferase MORF [Homo sapiens]	gb AAF00095.1	100%	216	233
						96%	6	167
						68%	164	304
						36%	12	158
						33%	12	170
						35%	45	164
						30%	39	164
						25%	30	176
						30%	24	164
						27%	36	146
						26%	13	168
						37%	81	161
						46%	53	91

HODER57	HODER57 R	1440	blastx.2	Method: conceptual translation supplied by author [Homo sapiens]	gb AAA911179.1	34%	6	101
HODFC44	HODFC44R P00	1449	blastx.2	(AF216754) over- expressed breast tumor protein [Homo sapiens]	gb AAF25683.1 AF2 16754_1	98%	1	207
HODFJ14	HODFJ14R	1453	blastx.2	Ran_GTP binding protein 5 [Homo sapiens]	emb CAA70103.1	100%	2	181
HODFO16	HODFO16 R	1459	blastx.2	selenium donor protein [Homo sapiens]	gb AAA87567.1	100%	305	409
HODFO64	HODFO64 R	1460	blastx.2	zinc finger protein ZNF136 [Homo sapiens]	gb AAC50261.1	78%	16	153
						70%	1	153
						70%	1	153
						64%	1	153
						66%	1	153
						71%	16	153
						58%	1	153
						58%	1	153
						60%	1	156
						58%	1	153
						58%	1	153
						58%	7	153
						54%	10	153
						75%	150	233
						67%	156	239
						77%	174	239
						90%	174	233
						62%	153	239

HODFP51	HODFP51R	1461	blastx.2	pre-mRNA splicing factor [Homo sapiens]	gb AAA36648.1	45%	159	329
HODFQ19	HODFQ19R	1462	blastx.2	DNA topoisomerase III [Homo sapiens]	gb AAB03694.1	63%	153	242
HODFQ37	HODFQ37R	1463	blastx.2	pancreatic peptidylglycine alpha-amidating monooxygenase, 11	gb AAB32776.1	80%	174	233
HODGB69	HODGB69R	1475	blastx.2	protein 4 [Homo sapiens]	gb AAB58952.1	60%	153	236
HODGH30	HODGH30	1478	blastx.2	IDN4-GGTR14	sp Q9Y6Y5 Q9Y6Y5	54%	49	153
						51%	242	328
						70%	269	328
						55%	239	319
						60%	174	233
						43%	242	337
						81%	272	319
						54%	248	319
						32%	159	314
						34%	174	314
						48%	242	328
						52%	251	319
						41%	239	325
						41%	248	319
						37%	239	325
						77%	74	439
						44%	104	436
						89%	7	453
						92%	47	499
						93%	2	97
						25%	338	493
						89%	3	470
						90%	31	129

HODGH43	R		1479	blastx.2	PROTEIN. (AB005878) BYJ15 [Nicotiana tabacum]	dbj BAA21615.1	100%	48	116
HODGH65	R		1480	blastx.2	IDN4-GGTR14 PROTEIN.	sp Q9Y6Y5 Q9Y6Y5	28%	217	363
HODGN53	R		1482	blastx.2	(AF186461) ring finger protein Fxy [Rattus norvegicus]	gb AAD56247.1 AF1 86461_1	96%	41	127
HODGQ52	R		1487	blastx.2	unnamed protein product [unidentified]	emb CAB42187.1	39%	95	475
HODGW91	R		1489	blastx.2	phosphofructokinase [Homo sapiens]	gb AAA79220.1	82%	1	84
HODGZ63	R		1493	blastx.2	putative [Caenorhabditis elegans]	gb AAA28195.1	25%	118	189
HODHD23	R		1495	blastx.2	fused-ccdB [Escherichia coli]	emb CAA71575.1	100%	101	3
HODHE54	R		1498	blastx.2	lysyl oxidase-like protein [Homo sapiens]	gb AAA50162.1	93%	394	347
HODHE88	R		1499	blastx.2	(AK001737) unnamed protein product [Homo sapiens]	dbj BAA91871.1	49%	190	462
HODHG56	R		1500	blastx.2	(AF151888) CGI-130 protein [Homo sapiens]	gb AAD34125.1 AF1 51888_1	57%	470	532
HODHK86	R		1503	blastx.2	(AB005299) BAI 3 [Homo sapiens]	dbj BAA25363.1	92%	24	104
HODJL36			1505	blastx.2	(AL031177)	emb CAA20118.1	100%	24	323
							96%	323	418
							32%	94	348
							83%	29	196
							100%	121	231
							93%	2	289
							88%	413	568
							48%	207	590
							40%	254	436



	A				dJ889N15.2.2 (26S Proteasome subunit p28 (Ankyrin 1		32%	26	118
HODJZ09	HODJZ09R	1506	blastx.2		prepronociceptin [Homo sapiens]	emb CAA66039.1	98%	64	558
HODKB82	HODKB82 R	1508	blastx.2		serine/threonine kinase [Rattus norvegicus]	emb CAB06294.1	96% 28%	3 348	338 473
HODKD64	HODKD64 R	1514	blastx.2		(AL096881) hypothetical protein [Homo sapiens]	emb CAB51405.1	66%	503	333
HODKK26	HODKK26 R	1519	blastx.2		calmodulin [Homo sapiens]	dbj BAA08302.1	99% 45% 34% 100% 75%	59 41 38 463 417	424 286 391 507 464
HODKK40	HODKK40 R	1520	blastx.2		ribosomal protein S6 [Homo sapiens]	gb AAA60289.1	99%	1	624
HODKK73	HODKK73 R	1521	blastx.2		acidic ribosomal phosphoprotein (P0) [Homo sapiens]	gb AAA36470.1	96% 71% 28%	3 331 416	344 651 682
HODKN65	HODKN65 R	1526	blastx.2		homologue to elongation factor 1- gamma from A.salina [Homo sapiens]	emb CAA45089.1	76%	5	538
HOECR39	HOECR39R	1527	blastx.2		(AF216306) DCRC-1 [Mus musculus]	gb AAF32294.1 AF2 16306 1	58%	116	424
HOFAB77	HOFAB77R	1528	blastx.2		(AC007193) PPP5_HUMAN [Homo sapiens]	gb AAD22669.1 AC0 07193_3	80% 47%	16 450	489 512

HOFMF79	HOFMF79 RA	1530	blastx.2	cytochrome b [Canis familiaris]	gb AAD04775.1	80% 38%	4 305	339 430
HOFMJ88	HOFMJ88R	1531	blastx.2	receptor protein- tyrosine kinase [Homo sapiens]	gb AAA61139.1	76%	17	370
HOFMM8 4	HOFMM84 R	1533	blastx.2	hydroxymethylglutaryl- CoA reductase (NADPH) (EC 1.1.1.34) - mouse (fragments)	pir A43533 A43533	72% 85%	112 254	252 274
HOFMN93	HOFMN93 R	1534	blastx.2	(AF133669) ARL-6 interacting protein-1 [Mus musculus]	gb AAD33046.1 AF1 33669_1	61% 84%	36 214	299 327
HOFMP59	HOFMP59 R	1535	blastx.2	mitochondrial acetoacetyl-CoA thiolase [Homo sapiens]	dbj BAA01387.1	77% 83%	1 369	360 422
HOFMT68	HOFMT68 R	1536	blastx.2	RNAse L inhibitor [Mus musculus]	gb AAC24730.1	52% 40%	137 264	547 581
HOFMT69	HOFMT69 R	1537	blastx.2	HETEROGENEOUS NUCLEAR RIBONUCLEOPROTE IN M (HNRNP M).	sp P52272 ROM_HU MAN	80% 75% 39%	127 27 98	264 122 316
HOFMU92	HOFMU92 R	1538	blastx.2	(AP000694) chromatin assembly factor 1, subunit B (p60) [Homo sapiens]	dbj BAA89426.1	63%	124	432
HOFNF63	HOFNF63R	1540	blastx.2	phosphomannomutase [Homo sapiens]	gb AAC51368.1	70%	26	478
HOFNF76	HOFNF76R	1541	blastx.2	(AB002806) OS-9	dbj BAA24363.1	94%	17	370

HOFNG51	HOFNG51 R	1542	blastx.2	isoform 2 is missing nt 1642-1806; OS-9 1 (AB006679) ATP binding protein [Homo sapiens]	dbj BAA21881.1	79%	157	414
HOFNK44	HOFNK44 R	1543	blastx.2	osteonectin precursor [Bos taurus]	gb AAA30678.1	96%	19	186
HOFNY53	HOFNY53 R	1544	blastx.2	(AL034417) bK215D11.1 (RNA- binding protein regulatory subunit) [Homo sapiens]	emb CAB52550.1	91%	17	232
HOFOB65	HOFOB65R	1545	blastx.2	pyruvate dehydrogenase E1- alpha precursor [Homo sapiens]	gb AAA60055.1	74%	16	600
HOFOB79	HOFOB79R P00A	1546	blastx.2	KERATIN TYPE II CYTOSKELETAL 8 (FRAGMENT)	sp Q29386 Q29386	84%	80	397
HOFOE22	HOFOE22R	1547	blastx.2	activin receptor type I [Bos taurus]	gb AAB02696.1	98%	22	345
HOFOF47	HOFOF47R	1548	blastx.2	(AF129075) T- COMPLEX PROTEIN 1, THETA SUBUNIT (TCP-1-THETA) [Homo sapiens]	gb AAD17375.1	98% 62% 100%	18 245 244	242 460 270
HOFOF56	HOFOF56R	1549	blastx.2	protein disulfide isomerase [Mus musculus]	gb AAA39906.1	85% 57% 64% 36%	115 109 35 204	219 219 115 350

HOGCF48	HOGCF48R	1553	blastx.2	hepatitis C-associated microtubular aggregate protein p44 [Homo sapiens]	dbj BAA06043.1	40%	263	352
						63%	245	592
						96%	76	240
						67%	414	587
						75%	523	570
HOGCG83	HOGCG83 R	1554	blastx.2	keratin [Homo sapiens]	emb CAA31695.1	79%	50	310
						81%	309	482
						59%	21	113
HOGCI28	HOGCI28R	1556	blastx.2	complement component C3 [Homo sapiens]	gb AAA85332.1	93%	3	179
						83%	173	337
HOGCI10	HOGCI10R	1557	blastx.2	(AF032667) rexo70 [Rattus norvegicus]	gb AAC01579.1	94%	103	471
HOGCI55	HOGCI55R	1559	blastx.2	Grb14 [Homo sapiens]	gb AAC15861.1	95%	13	459
HOGCT44	HOGCT44 R	1562	blastx.2	casein kinase I-alpha [Homo sapiens]	gb AAC41760.1	100%	31	183
HOGCV85	HOGCV85 R	1563	blastx.2	heparin binding protein [Homo sapiens]	gb AAA58636.1	76%	3	521
						73%	398	535
HOGCV93	HOGCV93 R	1564	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	79%	43	504
HOGCY12	HOGCY12 R	1565	blastx.2	elongation factor 1 alpha [Oryctolagus cuniculus]	gb AAA18502.1	97%	8	340
						41%	302	547
HOGCY58	HOGCY58 R	1566	blastx.2	lipocortin II [Homo sapiens]	dbj BAA00013.1	94%	3	329
						70%	332	517
						30%	150	326
HOGCY74	HOGCY74 R	1567	blastx.2	extracellular matrix protein BM-40 (AA 1 -	emb CAA68724.1	100%	3	260

HOGDD29	HOGDD29 R	1568	blastx.2	303) [Homo sapiens] drebrin E2 [Homo sapiens]	gb AAA16256.1	88%	3	152
HOGDG03	HOGDG03 R	1570	blastx.2	I-caldesmon II [Homo sapiens]	dbj BAA14419.1	95% 87%	191 393	388 491
HOGDI44	HOGDI44R	1572	blastx.2	neutrophil gelatinase associated lipocalin [Homo sapiens]	emb CAA58127.1	100%	55	192
HOGDO25	HOGDO25 R	1574	blastx.2	XIAP associated factor-1 (ZAP-1) [Homo sapiens]	emb CAA68030.1	100%	2	163
HOGDO58	HOGDO58 R	1575	blastx.2	acidic ribosomal phosphoprotein (P0) [Homo sapiens]	gb AAA36470.1	65%	86	373
HOGDP10	HOGDP10 R	1576	blastx.2	keratin [Homo sapiens]	emb CAA73943.1	89%	3	287
HOGDQ95	HOGDQ95 R	1578	blastx.2	FUSE binding protein 3 [Homo sapiens]	gb AAC50893.1	90% 32% 62% 48%	70 157 390 413	435 378 461 493
HOGDR70	HOGDR70 R	1579	blastx.2	gamma subunit of CCT chaperonin [Homo sapiens]	emb CAA52808.1	83%	102	578
HOGDV93	HOGDV93 R	1580	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	98%	4	414
HOGEA27	HOGEA27	1581	blastx.2	cytokeratin 8 [Homo sapiens]	gb AAA35763.1	81%	2	160

	R			sapiens]				
HOGED85	HOGED85 R	1582	blastx.2	AP-3 complex beta3A subunit [Homo sapiens]	gb AAD03778.1	75% 85% 25%	3 305 6	482 445 173
HOG EK25	HOG EK25 R	1583	blastx.2	HLA-Aw34.2 antigen [Homo sapiens]	emb CAA43874.1	91%	38	316
HOG EN30	HOG EN30 R	1584	blastx.2	regulatory subunit RI alpha [Homo sapiens]	emb CAA01027.1	83%	140	322
HOG EP69	HOG EP69R	1587	blastx.2	(AF056182) G-protein beta subunit [Emericella nidulans]	gb AAC33436.1	75% 78%	83 219	205 260
HOG ET60	HOG ET60R	1588	blastx.2	Plakoglobin [Homo sapiens]	gb AAA64895.1	67%	155	367
HOG EW58	HOG EW58 R	1590	blastx.2	focal adhesion kinase [Homo sapiens]	gb AAA35819.1	96%	4	414
HOG EZ03	HOG EZ03R	1592	blastx.2	kinase [Homo sapiens]	emb CAA65450.1	87% 83%	52 18	144 53
HO OHL68	HO OHL68 R	1601	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	92%	373	543
HO OHP84	HO OHP84 R	1602	blastx.2	(AF013215) ribosomal protein S2 [Bos taurus]	gb AAB65437.1	82%	1	156
HO OHQ09	HO OHQ09 R	1603	blastx.2	pfxblue fusion protein [synthetic construct]	gb AAA72865.1	63%	292	423
HO OHQ83	HO OHQ83 R	1604	blastx.2	(AB000910) ribosomal protein [Sus scrofa]	dbj BAA19210.1	100%	85	399
HO OHR81	HO OHR81 R	1605	blastx.2	pfxblue fusion protein [synthetic construct]	gb AAA72865.1	73% 78%	336 464	458 505
HO OHT13	HO OHT13	1608	blastx.2	steroid receptor TR2-11	gb AAA36761.1	95%	3	188

	R				[Homo sapiens]			95%	193	264
HOOLA46	HOOLA46R	1610	blastx.2		cpn10 protein [Bos taurus]	emb CAA49288.1		100%	3	239
HOORB54	HOORB54R	1613	blastx.2		ribosomal protein L23a [Homo sapiens]	gb AAB17510.1		75%	89	199
HOORG71	HOORG71R	1615	blastx.2		ribosomal protein L27 [Homo sapiens]	gb AAA19815.1		98%	2	250
HOORN84	HOORN84R	1624	blastx.2		IEF 7442 [Homo sapiens]	emb CAA51360.1		100%	4	189
HOORT32	HOORT32R	1629	blastx.2		ribosomal protein L23a [Homo sapiens]	gb AAA03341.1		76%	34	237
HOORT65	HOORT65R	1630	blastx.2		(AJ388520) Ribosomal protein [Canis familiaris]	emb CAB46822.1		88%	43	123
HOORY44	HOORY44R	1636	blastx.2		human homologue of rat phosphatidylethanolamine binding protein [Homo sapiens]	dbj BAA03684.1		100%	2	184
HOORY80	HOORY80R	1637	blastx.2		cytochrome b5 [Homo sapiens]	gb AAA35729.1		98%	61	462
HOORY92	HOORY92R	1638	blastx.2		mitochondrial matrix protein [Homo sapiens]	gb AAA60127.1		98% 91% 66% 62%	48 403 513 341	344 513 686 445
HOOKN43	HOOKN43R	1640	blastx.2		ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1		63%	124	399
HOPJF95	HOPJF95R	1643	blastx.2		nucleolar protein p40	gb AAB46731.1		91%	209	511

HOPJG60	HOPJG60R	1644	blastx.2	[Homo sapiens] (AF161386) HSPC268	gb AAF28946.1 AF1 61386.1	90%	130	219
HOPJG79	HOPJG79R	1646	blastx.2	[Homo sapiens] prosomeal P27K protein	emb CAA42052.1	85% 100%	237 86	461 280
HOPJH65	HOPJH65R	1650	blastx.2	[Homo sapiens] C gamma 3 [Homo sapiens]	emb CAA27268.1	97% 57%	3 535	551 594
HOPKA06	HOPKA06 R	1656	blastx.2	homeotic protein HOX4E - human	pir A42008 A42008	46% 44% 34% 100%	42 182 172 2	476 460 543 49
HOPKG16	HOPKG16 R	1659	blastx.2	scar protein [Homo sapiens]	gb AAA36597.1	95%	2	655
HOPKG47	HOPKG47 R	1660	blastx.2	(AL050318) dJ977B1.5 (myosin regulatory light chain 2, smooth muscle isoform) [Homo sapiens]	emb CAB75369.1	98% 83%	46 525	519 560
HOPKG83	HOPKG83 R	1661	blastx.2	elongation factor-1- beta [Homo sapiens]	emb CAA43019.1	99% 50% 84%	34 584 615	594 709 653
HOPKK38	HOPKK38 R	1662	blastx.2	(AF077539) contains similarity to human melanoma antigen p15 (GB: U19796) [Caenorhabditis elegans]	gb AAC26291.1	34% 61%	60 379	380 417
HOPKN14	HOPKN14 R	1663	blastx.2	aldolase A (EC 4.1.3.13) [Homo sapiens]	gb AAA51690.1	100%	2	460



HOPKN67	HOPKN67 R	1664	blastx.2	17,000 dalton myosin light chain [Bos taurus]	emb CAA38722.1	94%	31	483
HOPKO04	HOPKO04 RA	1665	blastx.2	(AL137423) hypothetical protein [Homo sapiens]	emb CAB70733.1	96%	1	81
HOPKO61	HOPKO61 R	1666	blastx.2	Six5 [Mus musculus]	dbj BAA11824.1	76%	4	405
HOPKP45	HOPKP45R	1667	blastx.2	PAX8=paired-box- protein [alternatively spliced] [human, 1]	gb AAB34216.1	90%	285	527
						90%	154	285
						41%	494	601
						35%	385	435
HOPKQ20	HOPKQ20 R	1668	blastx.2	ribosomal protein S20 [Homo sapiens]	gb AAA60286.1	82%	115	435
HOPKQ82	HOPKQ82 R	1669	blastx.2	(AF063243) ribosomal protein L30 [Bos taurus]	gb AAC16388.1	89%	28	498
HOPKR56	HOPKR56R	1670	blastx.2	unnamed protein product [Homo sapiens]	emb CAA02873.1	100%	6	173
HOPKU33	HOPKU33 R	1671	blastx.2	ribosomal protein L11 [Homo sapiens]	gb AAC15856.1	86%	5	514
HOVBK49	HOVBK49 R	1674	blastx.2	(AL080125) hypothetical protein [Homo sapiens]	emb CAB45723.1	85%	12	155
						80%	21	155
						75%	21	155
						70%	21	170
						79%	21	152
						60%	21	203
						73%	21	155
						66%	21	155
						63%	21	152

								61%	12	152
								63%	21	152
								40%	112	369
								40%	121	375
								38%	121	375
								38%	121	372
								36%	121	375
								46%	24	170
								34%	121	375
								34%	121	375
								32%	121	375
								38%	27	173
								42%	258	407
								34%	178	369
								36%	258	407
								37%	264	407
								34%	261	407
								39%	264	407
								34%	258	407
								32%	258	407
								31%	261	401
								30%	258	407
								36%	27	152
								52%	243	305
								28%	42	146
HOVBS15	HOVBS15R	1675	blastx.2	(AF105715) ubiquitous nuclear protein [Gallus gallus]	gb AAD46422.1 AF105715_1	50%	246	434		
HOVBX41	HOVBX41R	1676	blastx.2	(AF025331) receptor for activated protein	gb AAB81618.1	55%	50	109		
						34%	112	249		
						86%	182	319		
						75%	340	399		

HOVCN03	HOVCN03 R	1678	blastx.2	kinase C [Oreochromis niloticus] (AJ005798) thyroid hormone receptor alpha 2 [Sus scrofa]	emb CAA06702.1	72%	309	341
HOVCU89	HOVCU89 R	1680	blastx.2	ribosomal protein L18a - rat	pir S03957 R5RT18	72%	36	578
HOVCV33	HOVCV33 R	1681	blastx.2	alpha-smooth muscle actin [Oryctolagus cuniculus]	emb CAA43139.1	92% 50%	1 287	321 454
HOVCW4 5	HOVCW45 R	1682	blastx.2	(AL137585) hypothetical protein [Homo sapiens]	emb CAB70827.1	97% 100% 80% 21% 23%	2 372 463 5 35	220 464 522 196 190
HOVCZ45	HOVCZ45 R	1684	blastx.2	retrovirus-related pol polyprotein pseudogene - human 1	pir A44282 A44282	65% 61%	2 444	361 506
HOVDB61	HOVDB61 R	1686	blastx.2	(AF067728) transactivating protein BRIDGE [Rattus norvegicus]	gb AAD32925.1 AF067728_1	89%	91	204
HOVDB65	HOVDB65 R	1688	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	112	282
HOVDG71	HOVDG71 R	1692	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	75% 81% 27%	116 3 103	226 98 210
HOVDH09	HOVDH09 R	1693	blastx.2	binding protein [Homo sapiens]	gb AAA36032.1	98% 81%	15 405	299 485

HOVDH75	HOVDH75 R	1694	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1 (AF151866) CGI-108 protein [Homo sapiens]	gb AAB00807.1	81%	316	381
HOVDV70	HOVDV70 R	1696	blastx.2	MTSP75 [Homo sapiens]	gb AAD34103.1 AF1 51866.1	69%	299	433
HOVEF34	HOVEF34R	1703	blastx.2	thyroid receptor interactor [Homo sapiens]	gb AAA67526.1	71%	121	297
HOVEF81	HOVEF81R	1704	blastx.2	cytochrome c-1 [Homo sapiens]	gb AAA73877.1	90%	246	611
HOVEL51	HOVEL51R	1707	blastx.2	Lutheran blood group glycoprotein [Homo sapiens]	gb AAA52135.1	99%	580	612
HOVEY58	HOVEY58 R	1712	blastx.2	macrophage migration inhibitory factor [Homo sapiens]	gb AAB00807.1	93%	49	393
HOVJJ09	HOVJJ09R	1717	blastx.2	laminin-binding protein [Homo sapiens]	emb CAA58449.1	100%	96	209
HOVJR56	HOVJR56R	1718	blastx.2	HLA-DR-beta-A [Homo sapiens]	gb AAA21814.1	100%	21	47
HOVJU75	HOVJU75R	1719	blastx.2	23 kD highly basic protein [Homo sapiens]	gb AAA36161.1	92%	277	369
HOVJW17	HOVJW17 R	1720	blastx.2		emb CAA00596.1	92%	28	576
HOVJY68	HOVJY68R	1721	blastx.2		emb CAA40254.1	94%	4	186
						97%	64	648
							95	217
							217	570
							15	221

HOVKE66	HOVKE66 R	1723	blastx.2		unnamed protein product [unidentified]	emb CAB69339.1	35%	149	241
HOVKG18	HOVKG18 R	1725	blastx.2		PBG-D (aa 1-344) [Homo sapiens]	emb CAA27801.1	98%	2	487
HPAMB11	HPAMB11 R	1726	blastx.2		transformation-related protein [Homo sapiens]	gb AAA36776.1	66%	353	601
HPAMB60	HPAMB60 R	1727	blastx.2		poly(A)-binding protein [Homo sapiens]	gb AAD08718.1	80% 41% 31% 38%	2 65 65 496	679 556 553 684
HPAMB93	HPAMB93 R	1729	blastx.2		heat-shock protein [Canis familiaris]	gb AAA87172.1	74%	17	253
HPAMC04	HPAMC04 R	1730	blastx.2		ADP-ribosylation factor [Homo sapiens]	gb AAA57126.1	95%	231	299
HPAMC19	HPAMC19 R	1731	blastx.2		Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	50%	140	331
HPAMC27	HPAMC27 R	1732	blastx.2		protein synthesis initiation factor 4A [Mus musculus]	emb CAA40268.1	94%	89	676
HPAMC90	HPAMC90 R	1733	blastx.2		HBp15/L22 [Sus scrofa]	dbj BAA04547.1	88% 50%	64 746	786 805
HPAMD56	HPAMD56 R	1734	blastx.2		isolog of yeast sui1 and rice gos2; putative [Homo sapiens]	gb AAA60602.1	97%	84	464
HPAME35	HPAME35 R	1735	blastx.2		amphiglycan [Homo sapiens]	emb CAA47406.1	99%	136	456
							80%	26	451

HPAMF16	HPAMF16 R	1737	blastx.2	actin [Dictyostelium discoideum]	gb AAA74186.1	45%	178	414
HPAMF38	HPAMF38 R	1738	blastx.2	(AF132970) CGI-36 protein [Homo sapiens]	gb AAD27745.1 AF132970.1	73%	452	520
HPAMG44	HPAMG44 R	1739	blastx.2	(AC004393) Similar to ribosomal protein L17 gb X62724 from 1 1	gb AAC18792.1	42%	619	732
HPAMG54	HPAMG54 R	1740	blastx.2	(AF039752) histone deacetylase-2; HD-2 [Gallus gallus]	gb AAB96924.1	76%	63	434
HPAMII1	HPAMII1R	1741	blastx.2	ribosomal protein S8 [Homo sapiens]	emb CAA47670.1	61%	331	612
HPAMJ71	HPAMJ71R	1742	blastx.2	ribosomal protein S7 [Homo sapiens]	emb CAA81022.1	59%	117	374
HPAMQ76	HPAMQ76 R	1744	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	94%	75	389
HPAMT47	HPAMT47 R	1745	blastx.2	(AF017153) putative RNA helicase and RNA dependent ATPase [Mus musculus]	gb AAC36129.1	95%	394	516
HPAMU33	HPAMU33 R	1746	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	77%	518	661
HPAMW4	HPAMW44 R	1748	blastx.2	(AC006127) BRG-1-HUMAN [AA 812-1440]; nuclear protein GRB1; 1 1 SNF2L4	gb AAC97986.1	68%	627	701
						87%	11	592
						97%	62	397
						64%	412	609
						63%	405	494
						100%	2	190
						100%	381	509
						98%	2	493
						80%	472	600
						69%	4	354
						91%	221	358
						42%	46	159

HPAMY45	HPAMY45 R	1749	blastx.2	[Homo sapiens] (AC004908) similar to ribosomal protein L23a; similar to P29316 (PID:g132848)	gb AAD05196.1	95% 92%	294 220	563 297
HPAMZ14	HPAMZ14 R	1750	blastx.2	[Homo sapiens] triosephosphate isomerase [Rattus norvegicus]	gb AAA42278.1	93% 61%	20 508	508 600
HPAMZ15	HPAMZ15 R	1751	blastx.2	(AJ006776) IF2 protein [Homo sapiens]	emb CAB44357.1	95%	3	149
HPAMZ81	HPAMZ81 R	1752	blastx.2	SP-40,40 prepropeptide (AA-22 to 427) [Homo sapiens]	emb CAA32847.1	99% 62%	3 581	599 676
HPANA05	HPANA05 R	1753	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	99% 61% 88%	107 466 579	487 729 605
HPANA07	HPANA07 R	1754	blastx.2	nucleolin [Homo sapiens]	gb AAA59954.1	92% 34% 58%	7 19 626	678 678 697
HPANA28	HPANA28 R	1755	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	100%	2	376
HPANB32	HPANB32R	1757	blastx.2	(AF078820) high mobility group protein [Spalax ehrenbergi]	gb AAC27653.2	93%	5	235
HPANE49	HPANE49R	1759	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	99%	8	412
HPANES2	HPANES2R	1760	blastx.2	23 kD highly basic	emb CAA40254.1	95%	13	624

HPANE87	HPANE87R	1761	blastx.2	protein [Homo sapiens] lactate dehydrogenase B [Homo sapiens]	emb CAA32033.1	82%	119	592
HPANJ67	HPANJ67R	1762	blastx.2	lipocortin II [Homo sapiens]	dbj BAA00013.1	48%	34	174
HPCOJ59	HPCOJ59R	1766	blastx.2	predicted using Genefinder; Similarity to Drosophila RNA 1 this gene [Caenorhabditis elegans]	emb CAB01127.1	100%	3	119
HPCOL81	HPCOL81R	1770	blastx.2	histone H2A.Z (AA 1-127) [Bos taurus]	emb CAA36554.1	32%	60	260
HPCOO90	HPCOO90R	1771	blastx.2	ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	100%	36	179
HPCOO95	HPCOO95R	1772	blastx.2	HYPOTHETICAL PROTEIN (FRAGMENT)	sp Q16465 YZA1_HUMAN	98%	60	335
HPCOP23	HPCOP23R	1773	blastx.2	ribosomal protein [Homo sapiens]	gb AAA16105.1	100%	337	2
HPCOR52	HPCOR52R	1778	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	88%	53	427
HPCOV35	HPCOV35R	1780	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	94%	136	306
HPCOV41	HPCOV41R	1781	blastx.2	Csa-19 [Homo sapiens]	gb AAB00807.1	94%	244	414
HPCPD26	HPCPD26R	1784	blastx.2	alpha subunit (aa 1-394) [Bos taurus]	gb AAA86463.1	94%	54	356
					emb CAA27137.1	97%	3	314



HPCPH52	HPCPH52R	1788	blastx.2	antizyme inhibitor [Homo sapiens]	dbj BAA23593.1	100%	3	101
HPCPU27	HPCPU27R	1790	blastx.2	enhancer factor I chain A-D - rat	pir JC2022 JC2022	61%	3	185
HPCQT88	HPCQT88R	1797	blastx.2	integrin associated protein [Homo sapiens]	emb CAA80977.1	93%	1	327
HPCQX47	HPCQX47R	1800	blastx.2	ribosomal protein L7a large subunit [Homo sapiens]	gb AAA60282.1	90%	422	451
						97%	222	326
						92%	2	40
HPCTD21	HPCTD21R	1802	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	336	506
HPCTD23	HPCTD23R	1803	blastx.2	putative progesterone binding protein [Homo sapiens]	emb CAA73248.1	98%	2	190
HPCTD25	HPCTD25R	1804	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	374	544
HPCTF29	HPCTF29R	1806	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	209	379
HPCTF83	HPCTF83R	1807	blastx.2	major histocompatibility complex class II antigen beta chain, 1 Partial Mutant, 57 aa] [Homo sapiens]	gb AAB28826.1	92%	58	177
HPCTI86	HPCTI86R	1809	blastx.2	H+-ATP synthase subunit b [Homo sapiens]	emb CAA42782.1	99%	1	306

HPCTO69	HPCTO69R	1811	blastx.2	(AF042857) lung cancer antigen NY-LU-12 variant A [Homo sapiens]	gb AAC05826.1	99%	77	538
HPCTV40	HPCTV40R	1815	blastx.2	ribosomal protein L35a (aa 1-110) [Rattus norvegicus]	emb CAA27193.1	99%	48	377
HPCTV53	HPCTV53R	1816	blastx.2	8.2 kDa differentiation factor [Homo sapiens]	emb CAA56100.1	85% 91% 100%	26 138 250	148 248 318
HPCTV92	HPCTV92R	1817	blastx.2	(AL117452) hypothetical protein [Homo sapiens]	emb CAB55934.1	85%	20	205
HPCTX22	HPCTX22R	1818 <sup>*</sup>	blastx.2	Aop1_Human, MER5(Aop1_Mouse)-like protein [Homo sapiens]	dbj BAA08389.1	100%	1	153
HPDOF81	HPDOF81R	1822	blastx.2	2,4-dienoyl-CoA reductase [Homo sapiens]	gb AAA67551.1	95% 64%	3 229	254 342
HPDOP05	HPDOP05R	1823	blastx.2	RNA polymerase II elongation factor-like protein [Homo sapiens]	emb CAA87392.1	100%	2	412
HPDOP20	HPDOP20R	1824	blastx.2	MHC HLA-DR-beta chain precursor old gene name 'HLA-DRA1' [Homo sapiens]	gb AAA59831.1	84%	45	542
HPDOS87	HPDOS87R	1825	blastx.2	40S ribosomal protein S14 [Podocoryne carnea]	emb CAA50506.1	95% 54% 91%	84 14 209	209 85 244

HPDOU54	HPDOU54 R	1826	blastx.2	N-acetyl-beta-glucosaminidase prepro-polypeptide [Homo sapiens]	gb AAA51828.1	54%	1	66
						98%	3	269
						89%	250	468
HPDOZ43	HPDOZ43R	1827	blastx.2	tripeptidyl peptidase II [Homo sapiens]	gb AAA63263.1	94%	64	489
HPDPC90	HPDPC90R A	1829	blastx.2	(AF073298) small EDRK-rich factor 2 [Homo sapiens]	gb AAC63516.1	98%	318	485
HPDPH14	HPDPH14R	1830	blastx.2	Q1Z 7F5 [Homo sapiens]	gb AAA36021.1	92%	121	291
						87%	87	110
HPDPQ16	HPDPQ16R	1835	blastx.2	ZZ:beta-Gal' IgG-binding fusion protein [unidentified cloning 1]	gb AAB00807.1	52%	349	519
HPDPR73	HPDPR73R	1836	blastx.2	(AJ010046) guanine nucleotide-exchange factor [Homo sapiens]	emb CAA08974.1	94%	131	460
HPDPS51	HPDPS51R	1837	blastx.2	(AF033356) ORF3, splicevariantc [Homo sapiens]	gb AAC78797.1	76%	2	214
HPDPS90	HPDPS90R	1838	blastx.2	(AB021643) gonadotropin inducible transcription repressor-3 [Homo sapiens]	dbj BAA86989.1	42%	128	337
						36%	125	319
						36%	125	319
						32%	155	319
						37%	292	399
						48%	325	402
						57%	325	387
						60%	325	384
						42%	325	402

HPDPX12	HPDPX12R P00B	1841	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	32%	390	518
HPDPY83	HPDPY83R P00B	1842	blastx.2	prothymosin alpha [Homo sapiens]	gb AAA60213.1	38%	325	402
HPDQC34	HPDQC34R	1843	blastx.2	(AF038129) polyubiquitin [Ovis aries]	gb AAB92373.1	47%	399	461
						64%	396	437
						100%	14	418
HPDQH11	HPDQH11 R	1845	blastx.2	ribosomal protein L37a [Homo sapiens]	gb AAA60280.1	96%	199	393
HPDQH34	HPDQH34 R	1846	blastx.2	(AF115850) PAR protein [Homo sapiens]	gb AAD09822.1	85%	199	387
						95%	7	642
						94%	7	642
						97%	7	453
						94%	226	642
						64%	639	689
						61%	639	692
						61%	639	692
						100%	68	334
HPDQI50	HPDQI50R	1847	blastx.2	succinate dehydrogenase flavoprotein subunit [Homo sapiens]	gb AAA20683.1	73%	3	371
						94%	345	494
						85%	226	267
						41%	178	240
						99%	18	539
HPDQI55	HPDQI55R	1848	blastx.2	(AL022577) dJ353H6.2.2 (SW1/SNF related, matrix associated, 1 (SNF2L1))	emb CAA18608.1	96%	1	441

HPDQR20	HPDQR20R	1851	blastx.2	(PUTATIVE isoform 2) [Homo sapiens] RNA polymerase II 140 kDa subunit. [Homo sapiens]	emb CAA45124.1	91% 60%	10 555	639 761
HPDQR88	HPDQR88R	1852	blastx.2	similar to putative ATP-dependent RNA helicase K03H1.2 of C.elegans(S41025) [Homo sapiens]	dbj BAA13213.1	90% 80%	2 555	550 584
HPDQS25	HPDQS25R	1854	blastx.2	Cctg [Xenopus laevis]	emb CAA59350.1	85% 72%	4 258	264 410
HPDQT32	HPDQT32R	1858	blastx.2	neuroleukin [Homo sapiens]	gb AAA36368.1	100%	3	410
HPDQU81	HPDQU81 R	1859	blastx.2	(AF068227) putative transmembrane protein [Homo sapiens]	gb AAC27614.1	98%	3	269
HPDQV07	HPDQV07 R	1860	blastx.2	ribosomal protein S7 [Homo sapiens]	emb CAA81022.1	71%	35	574
HPDQW39	HPDQW39 R	1862	blastx.2	(AF133093) ARD-1 N- acetyltransferase homologue [Mus musculus]	gb AAF22155.1 AF1 33093_10	100% 70%	113 466	466 705
HPDQX13	HPDQX13 R	1863	blastx.2	Histone H3 [Asparagus officinalis]	emb CAA57811.1	72%	119	337
HPDQY23	HPDQY23 R	1864	blastx.2	DNA binding protein [Homo sapiens]	emb CAB10847.1	97%	3	443
HPDQZ65	HPDQZ65R	1869	blastx.2	(AF199488) beta-actin [Coturnix coturnix]	gb AAF13710.1 AF1 99488_1	100% 63%	3 446	443 694

HPDRA44	HPDRA44R	1870	blastx.2	japonica interferon regulatory factor 7 [Mus musculus]	gb AAB18626.1	72% 45%	4 362	240 559
HPDRA50	HPDRA50R	1871	blastx.2	actin [Diadromus pulchellus]	emb CAA62806.1	75%	16	189
HPDRF65	HPDRF65R	1872	blastx.2	ribosomal protein L8 [Homo sapiens]	emb CAA82248.1	58% 95% 50%	281 21 505	748 236 753
HPDRG73	HPDRG73R	1874	blastx.2	Ran [Canis familiaris]	emb CAA77980.1	94% 84%	50 451	460 528
HPDRM93	HPDRM93 R	1876	blastx.2	ribosomal protein L37 [Homo sapiens]	dbj BAA04888.1	86%	12	302
HPDRO04	HPDRO04R	1877	blastx.2	ribosomal protein L37 [Homo sapiens]	dbj BAA04888.1	100%	17	307
HPDRP36	HPDRP36R	1879	blastx.2	GLI-Krupple related protein [Homo sapiens]	gb AAA59467.1	100% 37% 78%	30 36 304	317 260 372
HPDRP41	HPDRP41R	1880	blastx.2	UHX1 protein [Homo sapiens]	gb AAC50450.1	88%	2	739
HPDRQ66	HPDRQ66R	1881	blastx.2	ribosomal protein [Homo sapiens]	emb CAA81488.1	91%	81	290
HPDRQ84	HPDRQ84R	1882	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	79%	4	555
HPDRR71	HPDRR71R	1883	blastx.2	(AF081484) alpha- tubulin isoform 1 [Homo sapiens]	gb AAC31959.1	98% 100%	16 381	390 422

HPDRS46	HPDRS46R	1885	blastx.2	(AF195094) gamma actin-like protein [Mus musculus]	gb AAF08293.1 AF195094_1	98% 69%	15 301	299 369
HPDRS87	HPDRS87R	1886	blastx.2	peptidylprolyl isomerase [Homo sapiens]	emb CAA37039.1	100%	14	508
HPDRT37	HPDRT37R	1888	blastx.2	leukocyte antigen F [Homo sapiens]	emb CAA34947.1	60%	3	560
HPDRU03	HPDRU03R	1890	blastx.2	(AL021366) cICK0721Q.4.1 (PHD finger protein 2) (isoform 2) [Homo sapiens]	emb CAA16159.1	98% 90%	59 247	244 276
HPDRU37	HPDRU37R	1891	blastx.2	HLA-A9HH antigen [Homo sapiens]	dbj BAA11936.1	96%	1	231
HPDRV73	HPDRV73R	1893	blastx.2	vimentin [Homo sapiens]	gb AAA61279.1	90%	4	573
HPDRW09	HPDRW09R	1895	blastx.2	MHC HLA-DR2(non-Dw2/non-Dw12)a. glycoprotein beta-chain [Homo sapiens]	gb AAA36278.1	95%	1	222
HPDRY37	HPDRY37R	1897	blastx.2	type XVI collagen alpha 1 chain, alpha 1 (XVI) [human, 1	gb AAB25797.1	64% 88% 50% 50% 48% 48% 52% 50% 44%	2 310 310 307 310 310 307 310 286	598 516 522 516 522 522 489 486 522

[illegible]



							43%	310	453
							41%	307	498
							64%	5	88
							58%	2	88
							41%	307	486
							62%	2	88
							43%	319	489
							61%	212	304
							40%	310	486
							54%	2	91
							44%	197	304
							42%	370	492
							30%	212	520
							31%	212	520
							58%	2	88
							58%	2	88
							48%	206	310
							58%	2	88
							55%	5	91
							43%	373	492
							45%	212	316
							55%	2	88
							56%	2	91
							38%	310	486
							32%	310	492
							50%	209	304
							38%	188	319
							57%	5	88
							54%	2	88
							57%	5	88

[illegible]

[illegible]

								41%	200	319
								46%	5	88
								48%	2	88
								46%	221	304
								45%	212	304
								50%	5	88
								48%	2	91
								48%	2	88
								48%	2	88
								47%	212	304
								53%	5	88
								42%	209	307
								44%	5	94
								46%	188	304
								41%	212	319
								37%	188	304
								58%	2	88
								48%	2	88
								50%	5	88
								51%	2	88
								52%	5	79
								50%	5	88
								44%	5	91
								51%	2	88
								50%	2	91
								46%	2	88
								46%	215	304
								45%	212	316
								40%	221	316
								50%	5	88

							41%	212	304
							41%	212	304
							40%	209	304
							48%	2	88
							44%	5	91
							50%	5	88
							44%	2	88
							48%	2	88
							51%	5	88
							48%	2	91
							48%	2	88
							45%	209	307
							43%	209	304
							45%	206	304
							41%	209	310
							41%	200	307
							54%	5	76
							52%	14	79
							48%	2	88
							50%	5	88
							50%	5	88
							41%	212	304
							42%	203	304
							38%	212	319
							50%	5	88
							45%	5	97
							45%	209	304
							38%	188	304
							36%	188	310
							52%	23	91

						48%	2	88
						48%	2	88
						48%	212	304
						41%	212	304
						38%	188	304
						52%	14	88
						44%	2	88
						51%	5	88
						41%	188	304
						40%	209	304
						40%	212	307
						40%	212	307
						48%	236	310
						41%	212	304
						40%	209	304
						37%	185	304
						35%	185	304
						53%	23	88
						46%	5	88
						54%	23	88
						50%	203	283
						44%	2	88
						41%	212	304
						43%	209	304
						61%	32	88
						51%	23	88
						50%	5	79
						41%	5	91
						40%	197	304
						50%	2	67



HPDRZ11	HPDRZ11R	1898	blastx.2	(AF012086) Ran. binding protein 2 [Homo sapiens]	gb AAC05596.1	40% 63% 50% 44% 42% 37% 40% 31% 32% 40% 36% 42% 60% 53% 53% 44% 55% 50% 56% 48% 53% 52% 48% 42% 44%	488 488 488 491 476 432 282 321 584 503 521 521 81 81 81 81 78 78 75 81 78 75 75 81 534	553 520 535 544 532 509 1 49 273 279 303 303 22 4 4 1 1 1 1 1 1 1 1 1 4 481
						98% 48% 60% 50% 46%	67 34 347 486 637	351 339 640 746 717



HPDRZ29	HPDRZ29R	1899	blastx.2	Lsc homologue [Homo sapiens]	emb CAA70356.1	50%	496	537
HPDVA01	HPDVA01R	1900	blastx.2	(AF153685) truncated calcium binding protein [Homo sapiens]	gb AAD51611.1 AF153685_1	81%	720	484
HPDVA06	HPDVA06R	1901	blastx.2	proteasome subunit HsN3 [Homo sapiens]	dbj BAA05647.1	87%	243	359
HPDVB70	HPDVB70R	1903	blastx.2	Ig mu chain C region, membrane-bound splice form - human	pir S16510 MHUM	93%	92	820
HPDVC28	HPDVC28R	1904	blastx.2	retrovirus-related polypeptide pseudogene - human 1	pir A44282 A44282	84%	62	436
HPDVG06	HPDVG06R	1906	blastx.2	immunoglobulin M heavy chain [Homo sapiens]	emb CAA47708.1	99%	3	326
HPDVI25	HPDVI25R	1908	blastx.2	APEX nuclease [Homo sapiens]	dbj BAA02633.1	83%	94	417
HPDVI95	HPDVI95R	1909	blastx.2	(AF067370) cytoplasmic dynein light chain; Tctex-1 [Bos taurus]	gb AAC39268.1	100%	3	338
HPDVK79	HPDVK79R	1911	blastx.2	TRANSCRIPTION FACTOR BTF3 (RNA POLYMERASE B TRANSCRIPTION 1)	sp Q64152 BTF3_MOUSE	77%	61	570
HPDVK93	HPDVK93R	1912	blastx.2	ribosomal protein L18a - rat	pir S03957 R5RT18	89%	116	634

HPDVL45	HPDVL45R	1914	blastx.2	cell cycle checkpoint control protein [Homo sapiens]	gb AAB39928.1	100%	4	303
HPDVL52	HPDVL52R	1915	blastx.2	hNop56 [Homo sapiens]	emb CAA72789.1	98% 56% 60% 29% 27% 31% 29% 28%	96 269 418 409 418 326 418 460	293 625 660 561 546 439 570 630
HPDVM61	HPDVM61R	1916	blastx.2	(AF123880) gag polypeptide [multiple sclerosis associated retrovirus element]	gb AAD48374.1	44%	5	268
HPDVM63	HPDVM63R	1917	blastx.2	(AF019036) human IgG1 neutralizing heavy chain with leader 1	gb AAF21613.1	97%	1	573
HPDVM86	HPDVM86R	1918	blastx.2	gamma-interferon-inducible protein precursor [Homo sapiens]	gb AAA36105.1	91% 100%	35 4	406 51
HPDVO67	HPDVO67R	1919	blastx.2	(AC005954) ZO-3 [Homo sapiens]	gb AAC72274.1	96% 84% 67% 41%	1 188 396 334	189 394 521 549
HPDVT37	HPDVT37R	1923	blastx.2	JUN-D protein [Mus musculus]	gb AAA39345.1	54% 78%	16 240	231 281
HPDVU28	HPDVU28	1924	blastx.2	protein phosphatase 2C	emb CAA74245.1	96%	163	693

HPDVU72	R	1925	blastx.2	gamma [Homo sapiens] similar to the Drosophila splicing regulator, 1 [Homo sapiens]	gb AAA19604.1	100%	3	497
						37%	51	434
HPDVU88	R	1926	blastx.2	glutathione peroxidase [Homo sapiens]	gb AAA67540.1	91%	51	599
HPDVV78	R	1927	blastx.2	keratin 18 [Homo sapiens]	gb AAA59461.1	72%	595	648
HPDWA88	R	1929	blastx.2	calcium binding protein [Homo sapiens]	dbj BAA23325.1	66%	129	638
HPDWC30	R	1931	blastx.2	GlcNac-1-P transferase [Homo sapiens]	emb CAB04787.1	85%	2	124
HPDWD67	R	1934	blastx.2	open reading frame (458 AA) [Homo sapiens]	emb CAA36054.1	94%	168	473
HPDWD69	R	1935	blastx.2	ribosomal protein S26 [Homo sapiens]	gb AAC26987.1	85%	285	404
HPDWD81	R	1936	blastx.2	HLA-DRB4*0103 [Homo sapiens]	emb CAB06483.1	79%	319	14
						100%	9	353
HPDWE11	R	1937	blastx.2	polyadenylate binding protein [Homo sapiens]	gb AAB97309.1	99%	4	330
HPDWF93	R	1939	blastx.2	Nascent polypeptide associated complex alpha subunit [Homo sapiens]	emb CAA56869.1	63%	333	593
						75%	479	526
						44%	460	513
HPDWL56	R	1941	blastx.2	complement factor B	gb AAA16820.1	82%	2	121
						91%	16	483
						96%	83	379

	R			[Homo sapiens]			89%	660	770
HPDWN46	HPDWN46 R	1943	blastx.2	p67 myc protein [Homo sapiens]	dj BAA01374.2		38%	83	145
HPDWN65	HPDWN65 R	1944	blastx.2	ribosomal protein S6 [Homo sapiens]	gb AAA60287.1		66%	468	566
HPDWN69	HPDWN69 R	1945	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1		73%	77	379
HPDWO50	HPDWO50 R	1948	blastx.2	5S ribosomal protein [Mus musculus]	emb CAA73041.1		98%	54	377
HPDWO61	HPDWO61 R	1949	blastx.2	(AL049783) hypothetical protein [Homo sapiens]	emb CAB42441.1		66%	379	528
HPDWO82	HPDWO82 R	1950	blastx.2	cpn10 protein [Bos taurus]	emb CAA49288.1		45%	416	535
HPDWS61	HPDWS61 R	1951	blastx.2	unknown product specific to adipose tissue [Homo sapiens]	dj BAA08226.1		97%	44	343
HPDWT55	HPDWT55 R	1952	blastx.2	alanine aminotransferase [Homo sapiens]	dj BAA01186.1		100%	37	342
HPDWT56	HPDWT56 R	1953	blastx.2	(AF033095) testis enhanced gene transcript protein [Homo 1]	gb AAB87479.1		97%	94	321
HPDWU47	HPDWU47 R	1954	blastx.2	90-kDa heat shock protein [Sus scrofa]	gb AAC48718.1		100%	3	503
							89%	66	650
							100%	620	694
							83%	697	750
							93%	58	678
							62%	662	757

HPDWU55	HPDWU55 R	1955	blastx.2	protein disulfide isomerase-related protein (PDIR) [Homo sapiens]	dbj BAA08451.1	94%	1	726
HPDWU60	HPDWU60 R	1956	blastx.2	(AF151063) HSPC229 [Homo sapiens]	gb AAF36149.1 AF1 51063.1	37%	1	624
HPDWU63	HPDWU63 R	1957	blastx.2	cytokeratin 15 (AA 1 - 456) [Homo sapiens]	emb CAA30535.1	27%	1	636
HSCPJ17	HSCPJ17R	1962	blastx.2	(AL031670) dJ681N20.2 (similar to FTLL1) (ferritin, light 1 ATPase 6 [Homo sapiens])	emb CAB43181.1	93%	176	565
HSDIA22	HSDIA22R	1963	blastx.2		emb CAA24031.1	80%	598	657
HSDIX73	HSDIX73R	1965	blastx.2	NADH dehydrogenase subunit 4L [Homo sapiens]	dbj BAA07296.1	100%	2	370
HSDZJ21	HSDZJ21R	1968	blastx.2	cytochrome-c oxidase (EC 1.9.3.1) chain I - western lowland I	pir C59153 C59153	82%	1	105
HSIFF84	HSIFF84R	1969	blastx.2	(AK002129) unnamed protein product [Homo sapiens]	dbj BAA92096.1	78%	143	6
HSKJR50	HSKJR50R	1970	blastx.2	translation initiation factor 3 47 kDa subunit [Homo sapiens]	gb AAD03467.1	86%	2	337
HSLHT27	HSLHT27R	1971	blastx.2	URF A6L (NADH dehydrogenase subunit)	emb CAA24030.1	98%	2	289
						50%	169	498
						49%	11	247
						45%	342	566
						80%	2	139
						66%	2	121

HSODB16	HSODB16R	1972	blastx.2	[Homo sapiens] cytochrome oxidase subunit II [Homo sapiens]	gb AAA20843.1	93%	1	651
HSPSB24	HSPSB24R	1973	blastx.2	(AF076191) gamma- actin [Trichosurus vulpecula]	gb AAC26520.1	90%	61	732
HSPSB70	HSPSB70R	1974	blastx.2	BBC1 [Homo sapiens]	emb CAA45963.1	100%	3	539
HSPSB74	HSPSB74R	1975	blastx.2	WT1 [Xenopus laevis]	dbj BAA11522.1	98%	1	162
HSPSB80	HSPSB80R	1976	blastx.2	unc-18homologue [Homo sapiens]	dbj BAA19482.1	92%	2	691
HSPSC30	HSPSC30R	1977	blastx.2	cell surface glycoprotein [Homo sapiens]	gb AAA36033.1	91% 83% 100%	124 4 309	318 180 374
HSPSE86	HSPSE86R	1978	blastx.2	(AF161507) HSPC158 [Homo sapiens]	gb AAF29122.1 AF1 61507_1	91% 62% 54%	3 302 477	338 667 626
HSPSG03	HSPSG03R	1979	blastx.2	protein phosphatase 2A 65 kDa regulatory subunit, alpha isoform [Sus scrofa]	emb CAA84414.1	100%	3	191
HSPSG13	HSPSG13R	1980	blastx.2	protein p68 (AA 1-614) [Homo sapiens]	emb CAA33751.1	95% 76%	221 738	739 788
HSPSG42	HSPSG42R	1981	blastx.2	(AF056490) cAMP- specific phosphodiesterase 8A [Homo sapiens]	gb AAC39763.1	98%	3	554
HSPSG50	HSPSG50R	1982	blastx.2	(AB036829) skeletal muscle and kidney	dbj BAA92340.1	80%	132	578

HSPSG89	HSPSG89R	1983	blastx.2	enriched inositol phosphatase [Homo sapiens]	gb AAC31959.1	97% .66%	106 629	645 700
HSPSH39	HSPSH39R	1984	blastx.2	(AF081484) alpha- tubulin isoform 1 [Homo sapiens]	dbj BAA36501.1	87%	68	772
HSPSH41	HSPSH41R	1985	blastx.2	(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	emb CAA32847.1	94% 95% 69%	129 367 480	404 498 683
HSPSH49	HSPSH49R	1986	blastx.2	SP-40,40 prepropeptide (AA -22 to 427) [Homo sapiens]	gb AAA60289.1	83%	96	821
HSPSI65	HSPSI65R	1987	blastx.2	ribosomal protein S6 [Homo sapiens]	gb AAA85654.1	89%	3	755
HSPSJ71	HSPSJ71R	1988	blastx.2	ribosomal protein L5 [Homo sapiens]	gb AAA35531.1	91% 54%	2 660	346 749
HSPSJ72	HSPSJ72R	1989	blastx.2	medium tumor antigen- associated 61-kD protein [Homo sapiens]	dbj BAA05679.1	92% 98% 50%	97 410 561	432 592 632
HSPSQ22	HSPSQ22R	1990	blastx.2	BST-2 [Homo sapiens]	gb AAA91461.1	100%	7	339
HSPSQ57	HSPSQ57R	1991	blastx.2	UbcH5C [Homo sapiens]	gb AAD02337.1	100%	16	327
HSPSY67	HSPSY67R	1992	blastx.2	(AF044671) MM46 [Homo sapiens]	sp P27361 MK03_H UMAN	99% 51% 47%	2 385 402	385 537 545

HSPSZ69	HSPSZ69R	1993	blastx.2	(EC 2.7.1.-) 1 1 1	unnamed protein product [unidentified]	emb CAB69291.1	98%	2	283
HSPTA57	HSPTA57R	1994	blastx.2		scar protein [Homo sapiens]	gb AAA36597.1	90%	285	317
HSPTN57	HSPTN57R	1995	blastx.2		(AB015610) ribosomal protein S4X [Chlorocebus aethiops]	dbj BAA36501.1	64%	337	735
HSSDM17	HSSDM17R	1996	blastx.2		(AL137714) hypothetical protein [Homo sapiens]	emb CAB70887.1	100%	318	338
HTLCU84	HTLCU84R	2001	blastx.2		RNA polymerase II elongation factor-like protein [Homo sapiens]	emb CAA87392.1	55%	2	157
HTSHG06	HTSHG06R	2002	blastx.2		URF 2 (NADH dehydrogenase subunit) [Homo sapiens]	emb CAA24027.1	37%	178	360
HULAP70	HULAP70R	2005	blastx.2		cytochrome c oxidase subunit VIII precursor [Homo sapiens]	gb AAA99313.1	53%	356	400
HUSGA11	HUSGA11R	2006	blastx.2		carbonate dehydratase [Homo sapiens]	emb CAA59331.1	94%	107	364
HUVFA39	HUVFA39R	2009	blastx.2		extensin [Volvox carteri]	emb CAA46283.1	100%	1	105
HVCAA31	HVCAA31R	2010	blastx.2		myosin regulatory light chain [Homo sapiens]	gb AAA67367.1	100%	251	349
HVCAA37	HVCAA37R	2011	blastx.2		complement factor B [Homo sapiens]	gb AAA16820.1	63%	220	471
HVCAA94	HVCAA94R	2013	blastx.2		F-1-ATPase beta-	gb AAA30395.1	100%	183	218
							34%	460	92
							34%	436	8
							98%	103	618
							96%	322	687
							88%	3	137
							95%	1	435



	R				subunit precursor [Bos taurus]			50%	440	643
HVCAB02	HVCAB02	2014	blastx.2		calciphosine [Homo sapiens]	emb CAA66609.1		100%	489	512
HVCAB03	HVCAB03	2015	blastx.2		40S ribosomal protein S12 [Sus scrofa]	emb CAA55946.1		76%	128	703
HVCAB18	HVCAB18	2016	blastx.2		human homolog of DnaJ protein [Homo sapiens]	dbj BAA02656.1		67%	486	644
HVCAB52	HVCAB52	2018	blastx.2		'human homologue of rat ribosomal protein L9' [Homo sapiens]	dbj BAA03401.1		92%	386	664
HVCAB57	HVCAB57	2019	blastx.2		glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1		88%	133	288
HVCAB88	HVCAB88	2020	blastx.2		(AL022721) dJ109F14.2 (60S Ribosomal Protein RPL10A) [Homo sapiens]	emb CAB38627.1		89%	60	794
HVCAC42	HVCAC42	2021	blastx.2		diphtheria toxin receptor associated protein [Chlorocebus aethiops]	dbj BAA01569.1		98%	67	612
HVCAD52	HVCAD52	2022	blastx.2		translin [Homo sapiens]	emb CAA55341.1		98%	1	333
HVCAE01	HVCAE01	2023	blastx.2		laminin-binding protein [Homo sapiens]	gb AAA36161.1		70%	330	524
									89	739
									184	414
									119	184
									305	430
									19	291
									64	606
									633	758

HVCAE15	HVCAE15 R	2024	blastx.2	lymphocyte antigen [Homo sapiens]	gb AAA59705.1	91%	3	695
HVCAE22	HVCAE22 R	2025	blastx.2	proteasome subunit C2 [Homo sapiens]	dbj BAA00656.1	97% 90%	86 489	487 554
HVCAE56	HVCAE56 R	2026	blastx.2	complement C3 [Homo sapiens]	gb AAA85332.1	74%	75	707
HVCAG56	HVCAG56 R	2027	blastx.2	ribosomal protein L7 [Homo sapiens]	emb CAA37139.1	99%	3	551
HVCAH03	HVCAH03 R	2029	blastx.2	(AF030249) putative dienoyl-CoA isomerase [Homo sapiens]	gb AAB86485.1	96% 62%	63 577	599 657
HVCAH17	HVCAH17 R	2030	blastx.2	precursor [Homo sapiens]	emb CAA68392.1	90% 92%	1 299	294 340
HVCAH56	HVCAH56 R	2031	blastx.2	ribosomal protein L3 [Homo sapiens]	emb CAA51839.1	97%	3	407
HVCAI08	HVCAI08R	2032	blastx.2	(AF008304) protein inhibitor of neuronal nitric oxide synthase [Oryctolagus cuniculus]	gb AAC32530.1	100%	130	375
HVCAI79	HVCAI79R	2034	blastx.2	sortilin [Homo sapiens]	emb CAA66904.1	80%	2	559
HVCAJ27	HVCAJ27R	2035	blastx.2	(AK000449) unnamed protein product [Homo sapiens]	dbj BAA91172.1	99%	88	537
HVCAJ81	HVCAJ81R	2036	blastx.2	(AB036060) ubiquitin [Oncomorphus mykiss]	dbj BAA88568.1	100% 81%	97 404	405 469
HVCAJ95	HVCAJ95R	2037	blastx.2	(AF073298) small EDRK-rich factor 2	gb AAC63516.1	100%	34	210

HVCAK02	HVCAK02 R	2038	blastx.2	[Homo sapiens] hnRNP-E2 [Homo sapiens]	emb CAA55015.1	89% 90%	90 3	467 92
HVCAL06	HVCAL06 R	2039	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	96% 30% 39%	3 302 432	308 559 554
HVCAO17	HVCAO17 R	2040	blastx.2	Nm23 protein [Homo sapiens]	emb CAA35621.1	70%	4	531
HVCAO63	HVCAO63 R	2041	blastx.2	similar to tubulin alpha-2 chain [Caenorhabditis elegans]	emb CAA85463.1	76% 72% 47%	82 269 342	276 322 410
HVCAP89	HVCAP89R	2042	blastx.2	CTP synthetase homolog [Mus musculus]	gb AAB17729.1	83% 67% 29% 80%	69 509 520 681	512 643 669 710
HVCAQ53	HVCAQ53 R	2043	blastx.2	RPS16 [Homo sapiens]	gb AAA60583.1	100%	43	480
HVCAR87	HVCAR87 R	2045	blastx.2	glyceraldehyde 3-phosphate dehydrogenase (EC 1.2.1.12) [Homo sapiens]	gb AAA52496.1	74%	54	536
HVCAS08	HVCAS08R	2046	blastx.2	triose-phosphate isomerase [Pan troglodytes]	gb AAA35438.1	74% 55%	77 609	796 803
HVCAS52	HVCAS52R	2047	blastx.2	proteasome subunit C8 [Homo sapiens]	dbj BAA00659.1	94%	1	579
HVCAU64	HVCAU64	2049	blastx.2	23 kD highly basic	emb CAA40254.1	97%	57	401

HVCBD18	R	2050	blastx.2	protein [Homo sapiens] (AK00385) unnamed protein product [Homo sapiens]	dbj BAA91131.1	59%	396	196
HVCBE76	HVCBE76R	2051	blastx.2	ribosomal protein L27 [Homo sapiens]	gb AAA19815.1	80%	24	431
HVCBF38	HVCBF38R	2053	blastx.2	neurofibromatosis type 1 protein [Homo sapiens]	gb AAA74897.1	85%	6	236
						41%	274	636
						71%	483	524
						42%	517	594
						88%	452	478
HVCBF89	HVCBF89R	2054	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	78%	41	325
						70%	666	725
						50%	590	679
HVCBG01	HVCBG01 R	2055	blastx.2	(AF184170) elongation factor 1-alpha [Sparus aurata]	gb AAD56406.1 AF1 84170_1	96%	43	237
						37%	300	572
						47%	353	535
						40%	553	627
HVCBQ31	HVCBQ31 R	2056	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	90%	65	343
						53%	327	647
						45%	328	663
						43%	482	559
HVCCA08	HVCCA08 R	2057	blastx.2	neurofibromatosis type- 1-GTPase activating- protein type III [Mus musculus]	dbj BAA06395.1	60%	23	256
HVCCCK34	HVCCCK34 R	2058	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	99%	94	696
HVCCCV93	HVCCCV93 R	2060	blastx.2	AICAR formyltransferase/IMP	gb AAA97405.1	92%	206	454
						58%	454	648

HVCDD19	HVCDD19 R	2062	blastx.2	cyclohydrolase bifunctional enzyme [Homo sapiens]		59%	564	674
HVCDF50	HVCDF50R	2063	blastx.2	1-8U [Homo sapiens]	emb CAA40626.1	98%	61	459
HVCDDH77	HVCDDH77 R	2064	blastx.2	similar to mouse Int-6 [Homo sapiens]	gb AAB58251.1	95%	3	341
HVVAB37	HVVAB37 R	2066	blastx.2	3-methyl-adenine DNA glycosylase [Homo sapiens]	emb CAA93540.1	63%	343	618
HVVAC18	HVVAC18 R	2067	blastx.2	98% Ig mu chain C region - dog	pir A93131 MHDG	98%	2	640
HVVAE73	HVVAE73 R	2069	blastx.2	(AF035421) glyceraldehyde 3- phosphate dehydrogenase [Ovis 1]	gb AAB88484.1	39%	215	700
HVVAH91	HVVAH91 R	2071	blastx.2	(AJ001612) L-3- phosphoserine- phosphatase homologue [Homo sapiens]	emb CAA04865.1	40%	78	401
HVVAI03	HVVAI03R	2072	blastx.2	(AL050109) hypothetical protein [Homo sapiens]	emb CAB43277.1	39%	61	267
						65%	2	61
						38%	294	347
						47%	59	379
						91%	111	326
						87%	54	245
						98%	32	304
						88%	303	383
						61%	7	45

HVVAJ23	HVVAJ23R	2073	blastx.2	immunoglobulin lambda-chain [Homo sapiens]	gb AAA02915.1	80%	9	563
HVVAK46	HVVAK46 R	2077	blastx.2	v-fos transformation effector protein [Homo sapiens]	gb AAA58487.1	96% 61%	3 707	746 769
HVVAK85	HVVAK85 R	2079	blastx.2	unnamed protein product [unidentified]	emb CAA03726.1	94%	14	370
HVVAL81	HVVAL81 R	2080	blastx.2	phospholipase A2 [synthetic construct]	emb CAA01645.1	81%	157	471
HVVAS27	HVVAS27 RP00B	2082	blastx.2	ribosomal protein S17 [Homo sapiens]	gb AAA60284.1	99%	9	413
HVVAW2 6	HVVAW26 R	2083	blastx.2	23 kD highly basic protein [Homo sapiens]	emb CAA40254.1	74% 56% 78%	7 272 447	444 601 503
HVVBD91	HVVBD91 RP00B	2084	blastx.2	gamma non-muscle actin [Oryctolagus cuniculus]	emb CAA43140.1	99%	2	436
HVVBFO9	HVVBFO9R	2085	blastx.2	(AK001810) unnamed protein product [Homo sapiens]	dbj BAA91922.1	89%	3	206
HVVBH88	HVVBH88 R	2087	blastx.2	Na,K-ATPase alpha- subunit [Homo sapiens]	dbj BAA00061.1	74%	1	519
HVVB116	HVVB116R	2088	blastx.2	IgG [Homo sapiens]	gb AAA02914.1	69% 92%	32 577	562 618
HVVB108	HVVB108R	2089	blastx.2	(AB014876) ribosomal protein L13 [Cricetus griseus]	dbj BAA34291.1	81% 96% 52%	156 40 419	479 234 601
HVVB155	HVVB155R	2090	blastx.2	ribosomal protein S17	gb AAA60284.1	99%	9	413

	P00B			[Homo sapiens]			
HVVBK13	HVVBK13 R	2091	blastx.2	(AB022653) anti- Entamoeba histolytica immunoglobulin kappa 1	dbj BAA82102.1	88% 62% 43%	73 633 617 618 713 733
HVVB065	HVVB065 R	2092	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA75033.1	68%	12 623
HVVB088	HVVB088 R	2093	blastx.2	immunoglobulin heavy chain VH-III region [Homo sapiens]	gb AAA98800.1	82%	77 481
HVVB70	HVVB70 RP00B	2094	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA40958.1	68% 67%	20 318 334 491
HVVB70	HVVB70 R	2096	blastx.2	HYPOTHEICAL PROTEIN (FRAGMENT).	sp Q16465 YZA1_H UMAN	100%	448 98
HVVCB04	HVVCB04 R	2098	blastx.2	heavy chain antibody 3D6 [synthetic construct]	emb CAA01549.1	69% 70% 30%	65 478 487 484 609 603
HVVCB08	HVVCB08 R	2099	blastx.2	(AB022653) anti- Entamoeba histolytica immunoglobulin kappa 1	dbj BAA82102.1	76%	73 735
HVVC06	HVVC06 R	2100	blastx.2	(AB005894) ecalectin [Homo sapiens]	dbj BAA31542.1	72% 85%	206 144 325 203
HVVC81	HVVC81 R	2102	blastx.2	glutathione S- transferase-pi [Homo sapiens]	gb AAA56823.1	96%	80 640

HVVCD90	HVVCD90 R	2104	blastx.2	type II mesothelial keratin K7 [Homo sapiens]	gb AAA36146.1	82%	98	748
HVVCE65	HVVCE65 R	2106	blastx.2	80K-H protein [Homo sapiens]	gb AA52493.1	94%	2	214
HVVCF38	HVVCF38R	2107	blastx.2	immunoglobulin lambda light chain [Homo sapiens]	emb CAA37883.1	84%	114	467
HVVCG29	HVVCG29 R	2108	blastx.2	FB19 protein [Homo sapiens]	emb CAA73697.1	95%	1	375
						65%	1	384
						66%	1	375
						65%	19	375
						69%	19	375
						63%	19	375
						52%	19	378
						63%	1	285
						47%	19	387
						44%	19	378
						44%	58	399
						70%	654	725
HVVCG31	HVVCG31 R	2109	blastx.2	(AF061034) FIP2 [Homo sapiens]	gb AAC16046.1	91%	14	349
						98%	310	573
						60%	576	773
						25%	361	540
HVVCG46	HVVCG46 R	2110	blastx.2	phosphoglycerate kinase (EC 2.7.2.3) [Homo sapiens]	gb AAA60078.1	100%	3	350
HVVCG93	HVVCG93 R	2111	blastx.2	(AB021288) beta 2- microglobulin [Homo sapiens]	dbj BAA35182.1	100%	49	405



HVVCH28	HVVCH28 R	2112	blastx.2	(AF104913) eukaryotic protein synthesis initiation factor [Homo sapiens]	gb AAC82471.1	100%	3	350
HVVCi28	HVVCi28R	2113	blastx.2	extracellular matrix protein BM-40 (AA 1 - 303) [Homo sapiens]	emb CAA68724.1	100%	3	119
HVVCi50	HVVCi50R	2114	blastx.2	3D6 antibody light chain [synthetic construct]	emb CAA01550.1	89% 79% 75%	44 382 644	403 663 739
HVVCi85	HVVCi85R	2115	blastx.2	Ig gamma chain C region - chimpanzee	pir PT0207 PT0207	96% 80%	3 599	599 688
HVVCj51	HVVCj51R	2116	blastx.2	lysophosphatidic acid acyltransferase-beta [Homo sapiens]	gb AAB58776.1	94% 87%	1 273	261 371
HVVCk78	HVVCk78 R	2118	blastx.2	Ig light chain V11 region [Homo sapiens]	gb AAA20217.1	85% 77% 84%	27 242 298	248 307 336
HVVCL52	HVVCL52 R	2119	blastx.2	NuMA protein [Homo sapiens]	emb CAA77670.1	99%	1	339
HVVCL73	HVVCL73 R	2120	blastx.2	ribosomal protein small subunit [Homo sapiens]	gb AAA35682.1	100% 91%	14 674	583 775
HVVCM67	HVVCM67 R	2121	blastx.2	Immunoglobulin lambda chain [Homo sapiens]	gb AAC37563.1	95% 78%	3 283	284 378
HVVCM84	HVVCM84 R	2122	blastx.2	apoferritin H chain [Homo sapiens]	emb CAA25086.1	68%	3	407
HVVCN20	HVVCN20 R	2123	blastx.2	Hin-2 [Homo sapiens]	gb AAA64187.1	89% 71%	68 4	286 87

HVVCN54	HVVCN54 R	2125	blastx.2	[Human Ig rearranged gamma chain mRNA, V-J-C region and complete cds.], gene product [Homo sapiens]	gb AAA73002.1	70% 78%	17 17	388 337
HVVC013	HVVC013 R	2127	blastx.2	3D6 antibody light chain [synthetic construct]	emb CAA01550.1	79% 48%	8 549	550 695
HVVC016	HVVC016 R	2128	blastx.2	alpha SNAP [Homo sapiens]	gb AAC80170.1	96%	251	346
HVVC087	HVVC087 R	2129	blastx.2	(AF191829) heat-shock protein [Littorina plena]	gb AAF12788.1 AF1 91829_1	90% 51% 93%	30 359 457	389 469 501
HVVC041	HVVC041R	2130	blastx.2	(AB019120) seven transmembrane receptor [Rattus norvegicus]	dbj BAA82518.1	52% 54%	2 573	436 644
HVVC088	HVVC088R	2131	blastx.2	(AC002528) alpha2(I) collagen [Homo sapiens]	gb AAB69977.1	88% 50% 49% 48% 47% 48% 49% 51% 48% 47% 47% 50%	15 3 3 3 6 3 3 3 15 15 15	470 302 299 299 299 290 272 272 299 299 299 272

						47%	3	272
						46%	3	302
						53%	3	278
						48%	15	272
						46%	3	272
						45%	18	302
						51%	3	272
						45%	18	314
						47%	3	272
						46%	3	305
						49%	3	299
						45%	3	299
						44%	3	299
						45%	3	302
						45%	3	302
						48%	3	272
						45%	3	299
						51%	27	272
						44%	3	302
						49%	3	272
						45%	18	272
						47%	3	272
						47%	15	278
						48%	3	272
						45%	3	299
						45%	18	299
						43%	18	299
						47%	3	272
						42%	3	302
						45%	3	299

HVVCQ49	HVVCQ49 R	2133	blastx.2	(AF076191) gamma-actin [Trichosurus vulpecula]	gb AAC26520.1	48%	18	272
HVVCQ93	HVVCQ93 R	2135	blastx.2	90kDa heat shock protein [Homo sapiens]	gb AAA36025.1	89%	7	699
HVVC28	HVVC28R	2136	blastx.2	Rab5c protein [Canis familiaris]	emb CAA81626.1	91%	183	293
HVVC32	HVVC32R	2137	blastx.2	(AF015283) selenoprotein W [Homo sapiens]	gb AAB69859.1	80%	403	507
HVVCU50	HVVCU50 R	2141	blastx.2	ubiquitin-like protein [Homo sapiens]	dbj BAA04889.1	100%	95	217
							54	629
							583	696
							319	480
							3	302
							3	299
							3	299
							3	272
							18	272
							3	272
							3	299
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							18	272

HVVCV41	HVVCV41 R	2142	blastx.2	(AB010491) natriuretic peptide A type receptor [Homo sapiens]	dbj BAA31199.1	100%	2	292
						100%	309	482
						66%	283	309
						40%	399	479
HVVCW7 5	HVVCW75 R	2144	blastx.2	(AK000419) unnamed protein product [Homo sapiens]	dbj BAA91151.1	100%	3	410
HVVCX46	HVVCX46 R	2146	blastx.2	p48 [Homo sapiens]	gb AAB38382.1	54%	71	712
						50%	418	747
						100%	354	431
						51%	654	734
HVVCY29	HVVCY29 R	2147	blastx.2	immunoglobulin gamma-2 heavy chain [Homo sapiens]	emb CAB58438.1	97%	2	715
HVVCY55	HVVCY55 R	2148	blastx.2	Hrs [Homo sapiens]	dbj BAA23366.1	99%	2	511
HVVCY60	HVVCY60 R	2149	blastx.2	elongation factor-1 alpha-chain protein (EF-1-alpha) [Xenopus 1]	gb AAA49700.1	86%	1	555
						38%	498	716
						42%	557	763
HVVCY62	HVVCY62 R	2150	blastx.2	(AF113887) kappa 1 immunoglobulin light chain [Homo sapiens]	gb AAD29608.1	90%	3	620
HVVCY75	HVVCY75 R	2151	blastx.2	ribosomal protein L34 [Rattus rattus]	emb CAA32574.1	96%	394	477
HVVCY77	HVVCY77 R	2152	blastx.2	phospholipid transfer protein [Homo sapiens]	gb AAA36443.1	98%	2	598
HVVCZ18	HVVCZ18 R	2153	blastx.2	UDP-GalNAc:polypeptide N-	emb CAA63371.1	95%	423	542

HVVDH44	HVVDH44 R	2156	blastx.2	acetyl galactosaminyl transferase (GalNAc-T3) [Homo sapiens]	gb AAC39746.1	85%	20	562
HVVDM2 3	HVVDM23 R	2157	blastx.2	(AF013622) immunoglobulin heavy chain variable region [Homo sapiens]	emb CAA09185.1	80% 74% 62%	81 308 541	338 502 588
HVVDM3 1	HVVDM31 R	2158	blastx.2	(AJ010446) immunoglobulin kappa light chain [Homo sapiens]	gb AAA35507.1	98%	3	446
HVVDM4 5	HVVDM45 R	2159	blastx.2	adenylyl cyclase-associated protein [Homo sapiens]	gb AAC15863.1	96%	66	155
HVVDN29	HVVDN29 R	2162	blastx.2	(AF016365) hexokinase I [Homo sapiens]	pir S03894 S03894	95% 25% 56%	8 29 615	643 559 683
HVVDN77	HVVDN77 R	2163	blastx.2	ADP, ATP carrier protein T2 - human	emb CAA53625.1	97%	4	594
HVVDP70	HVVDP70 R	2164	blastx.2	Lon protease-like protein [Homo sapiens]	dbj BAA21839.1	92% 39% 48%	61 294 287	309 593 415
HVVDQ46	HVVDQ46 R	2165	blastx.2	SM22 alpha [Homo sapiens]	dbj BAA14105.1	64% 56%	106 285	513 485
HVVDQ49	HVVDQ49 R	2166	blastx.2	destrin [Sus scrofa]	pir A24815 A24815	97%	2	103
				calpain (EC 3.4.22.17) large chain 1 - rabbit (fragments)				

HVVD S12	HVVD S12 R	2167	blastx.2	Ig kappa chain NIG2 precursor - human	pir JE0244 JE0244	89%	91	726
HVVD S21	HVVD S21 R	2168	blastx.2	gamma subunit of CCT chaperonin [Homo sapiens]	emb CAA52808.1	95% 68%	74 690	727 746
HVVD S35	HVVD S35 R	2169	blastx.2	hevin [Homo sapiens]	emb CAA57650.1	88% 67%	80 636	736 803
HVVD T29	HVVD T29 R	2171	blastx.2	(AF065388) tetraspan NET-1 [Homo sapiens]	gb AAC17119.1	72%	121	612
HVVD T44	HVVD T44 R	2172	blastx.2	ch-TOG [Homo sapiens]	emb CAA63212.1	98%	2	460
HVVD W0 2	HVVD W02 R	2174	blastx.2	retinoic acid induced gene E [Homo sapiens]	emb CAA92321.1	79%	3	200
HVVD W6 1	HVVD W61 R	2175	blastx.2	chimeric monoklonal TSH antibody, gamma chain [synthetic construct]	emb CAA00676.1	86%	2	229
HVVD X90	HVVD X90 R	2177	blastx.2	(AF149822) mitotic checkpoint protein BUB3 [Mus musculus]	gb AAD38038.1 AF1 49822_1	84%	23	511
HWLME4 8	HWLME48 R	2181	blastx.2	calpain II [Sus scrofa]	gb AAB17381.1	95%	3	140
HWMI B35	HWMI B35 R	2183	blastx.2	ZZ:beta-Gal' IgG- binding fusion protein [unidentified cloning 1]	gb AAB00807.1	96%	49	219

HWWEF90	HWWEF90 R	2185	blastx.2	(AL035461) dJ967N21.3 (novel protein similar to predicted 1	emb CAB55274.1	95%	61	300
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[0048] Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1. The second column provides the unique contig identifier, "Contig ID:" which allows correlation with the information in Table 1. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[0049] The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than  $1.0e-07$ , and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a

percent identity in Column 7. The percent identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[0050] The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[0051] As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[0052] The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1.

[0053] Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[0054] Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985; and/or as set forth, for example, in Table 1, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X. Techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[0055] The predicted amino acid sequence can then be verified from such deposits. Moreover, the amino acid sequence of the protein encoded by a particular clone can also be directly determined by peptide sequencing or by expressing the protein in a suitable host cell containing the deposited human cDNA, collecting the protein, and determining its sequence.

*RACE Protocol For Recovery of Full-Length Genes*

[0056] Partial cDNA clones can be made full-length by utilizing the rapid amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc. Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3' end can be reconstructed to include the absent base pairs extending to the translational start or stop codon, respectively. In some cases, cDNAs are missing the start codon of translation. The following briefly describes a modification of this original 5' RACE procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL) and an antisense or complementary primer specific to the cDNA sequence. The primer is removed from the reaction with a Microcon Concentrator (Amicon). The first-strand cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL). Thus, an anchor sequence is produced which is needed for PCR amplification. The second strand is synthesized from the dA-tail in PCR buffer, Taq DNA polymerase (Perkin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI, SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a nested cDNA-specific antisense primer. The PCR products are size-separated on an ethidium bromide-agarose gel and the region of gel containing cDNA products the predicted size of missing protein-coding DNA is removed. cDNA is purified from the agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI, and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites. This DNA is transformed into bacteria and the plasmid clones sequenced to identify the correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence with the putatively identified homologue and overlap with the partial cDNA clone. Similar methods known in the art and/or commercial kits are used to amplify and recover 3' ends.

[0057] Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[0058] An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

*RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes*

[0059] Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This

method starts with total RNA isolated from the desired source, poly A RNA may be used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase if used is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the ovarian antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant ovarian antigen.

[0060] The present invention also relates to vectors or plasmids, which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on June 5, 2000 and were given ATCC Deposit Nos. PTA-1982 and PTA-1985; and/or as set forth, for example, in Table 1, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1 (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion thereof) described in, for example Tables 1A or

2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[0061] Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[0062] Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res.* 16:7583-7600 (1988); Altling-Mees, M. A. and Short, J. M., *Nucleic Acids Res.* 17:9494 (1989)) and pBK (Altling-Mees, M. A. et al., *Strategies* 5:58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[0063] Vectors pSport1, pCMVSPORT 1.0, pCMVSPORT 2.0 and pCMVSPORT 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus* 15:59- (1993). Vector lacmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR<sup>®</sup>2.1, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

[0064] The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed

sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[0065] Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of ovarian associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[0066] The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[0067] The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[0068] The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for



example, antibodies of the invention raised against the ovarian polypeptides of the present invention in methods which are well known in the art.

[0069] The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, and/or a polypeptide encoded by the cDNA contained in Clone ID NO:Z are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[0070] Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3. In further embodiments, preferably excluded from the invention are the specific polynucleotide

sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten, or more of the available material having the accession numbers identified in the sixth column of this Table. In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

Clone ID NO: Z	SEQ ID NO: X	Contig ID:	EST Disclaimer Range of a Range of b	Accession #'s
HOVCD34	11	396327	1 - 314 15 - 328	BF032064, T40388, BG223493, AI917132, BF526832, AI554435, H86931, AC007262, AC026722, Z98742, AP000115, AL121969, AL159996, AP001717, AL353771, AL354674, AL353802, AL031846, AP000308, AL139343, Z97629, AC010135, AL049832, AP000048, AL020995, AC011292, AC007955, AL356103, AC004938, AC002492, AC068811, AC023511, AL008721, AC011749, AL024473, AC006354, AC002351, Z93015, AC007172, AC005230, AL139342, AF163926, AL121902, AC007025, AC005181, AL158841, AC011742, AL163201, AC009024, AC008269, AL139277, AC007964, AC007938, AF205588, AL139185, AC006478, AC007784, AL034395, AL136000, AC007344, AC010731, AL122013, AC002288, AL359751, AL121721, AC066590, AL139232, AC024164, AL031662, AC007358, AC009481, AL050335, AL033533, AC010789, AC009498, AC007850, AL020998, AC018684, AL034451, AL135783, AC008066, AC005030, AL049562, AL138706, Z95125, AC007461, AC011475, AL117337, AL117694, AL121915, AL049776, AL078596, AL035089, AL096764, AL049563, AC002553, AL035067, AC007458, AC018642, AC005550, Z99496, Z98036, Z99291, AC003119, AC007446, AC020751, AC068314, AC003035, X87344, AC066598, AC073175, AL139351, AC012156, AC006314, AC010582, AC018832, AC006142, AL139353, and AL163247.
HEBGD58	12	498281	1 - 340 15 - 354	BG253988, BF508504, AA187211, H44280, BG251021, AA431830, AW962811, AA355921, H06638, BG259131, AV729233, BG119160, BG027014, T48526, AW298232, and AL138828.
HETCD42	13	533532	1 - 2333 15 - 2347	AL079360, AU137870, AU139146, BG260515, AV714769, AU137391, BF984453, AV713475, AV757390, AU138193, BF981793, AV713896, BE886752, BE889586, AW863749, BE882133, BF984505, BF983192, BG033275, BE537808, AU138496, BF978549, BF791293, AV758458, BF978970, BE897839, BE891773, BG028552, AV756779, BF348380, BE544852, BG180994, AU138423, BE783926, BE790149, AV647651, BG180514, BE886542, BF669771, AW950287, BG030964, AU133929, BF540824, BF672669, AL308837, BE882889, BF244654, BF666694, AV647698, BG169993, BF790368, AV723145, AV732863, AA122236, AV647695, AV715522, AV685920, BF028308, AV647569, BF105115, BE892120, BF695056, BF669431, BF436129, BE543091, AW363937, BF667030, AI740603, BE568179, AV715544, AI698125, AI678683, BE748490, AW299845, BG009598, AI766040, BF036918, AA911996, BF790701, AI740699, BF129905, BF695828, BE748787, BF694681, BE049332, BE501459, BF791119, BF242503, BF240540, AI566017, BE739216, AI862778, BF103607, BF383055, BF089920, BF383113, BF574696, AW439230, BF028165, AI992130, BF029869, BF214255, AA083269, BF692328,

					<p>BF028909, BF028950, N31326, BF670821, BF211706, BF701480, BF670811, BE866031, AI917193, AI570519, BE568353, AI095016, BF130290, BF245935, AA731991, BE789179, BE018220, BE789659, AV706901, BE73916, AI784504, AU157511, AU157154, AA807683, BF214737, BE866674, AA521441, BE697291, AI097040, AU155086, BF576547, BF001380, AA577000, BF576765, AI421580, BE042461, AA315644, BF241476, BG165631, AI954071, AI949499, BF001429, BG178240, AI088027, BF693411, BE866506, BF243338, BF238642, BF213391, BF693271, AI590159, BE564554, AI870962, AA291279, BF696346, AI683299, AA452797, BF691651, BF697614, BF574483, AI335173, BF574392, AI922454, BE878946, AA613953, BE301705, W46431, AI983758, BE138832, BF381737, BE568565, BF126639, N21374, BF793733, AV757543, BE175751, BF211165, BF693918, BF383115, BF575927, AA083228, AA626504, BE568752, BF993159, BF248184, AI274752, AV647219, AW514125, AI580851, AI302371, AV758280, W52465, AW339075, AW627843, AW589504, AA729798, AA165015, AI301712, BF923406, BG025081, AI095888, BF132421, BE865839, HI2391, AW193393, BG113656, AI750428, N35068, AW628469, BF381687, AA018858, AI537545, AI539228, AV647526, BE739676, BF244248, N43807, AI355889, BF219513, AW305167, AA248634, BF670216, BF208900, D58212, BF576833, BE567828, AV692522, AW316752, AV763220, AA249298, BF221484, BE247748, BF336472, BE567395, AV704009, BF336476, AC002543, U03851, U03269, U16741, M80589, and M25534.</p>
HTXKC18	14	535854	1 - 864	15 - 878	<p>AA547979, AI085242, BG029528, BF725761, BE162539, AI801505, AI358712, BF804385, AI369580, AL037714, AL079734, BE062478, AA483236, BF811714, BF681619, BF804359, BG180976, BE178231, AV760941, BE252421, AW021116, AI439372, AA594157, AV758870, AW819125, AL043351, BE062476, AA643770, AI583252, AI923052, BE178064, AI440117, AV760391, AL038606, AV741663, AA528503, AW855643, BE301584, AA528496, AW069227, AW969941, AW833865, AI380617, AA579419, AV760014, BF868994, AI612142, BF842771, AV760389, AI251576, AW023111, AL037683, AW827182, AL040038, AW237905, BE677029, AI491765, AL042373, AI499298, AI421755, AW020150, AI174876, AI821467, AA469327, AI612070, BF244530, AW855528, BE063437, AW779609, AI583466, AA812058, BF821009, AV763276, AV726091, BF821897, BG152386, AI611533, AI565084, AA832016, AA828047, AA857812, AI275982, AI610941, BE150580, AI299882, AV760915, AI301373, AA838091, AI457389, T74524, AL121655, AC005520, AC006312, AL356379, AC008569, AL024498, AC007546, AC020904, AC018758, AL158040, AC005911, AC024082, AL109804, AC007637, AC003940, AC004089, AP001435, AC011449, AL096840, AC005102, AC004867, AC021016, AL121586, AL034548, AC004967, AC005736, AC005480, AC008403, AC003684, AC009516, AC020916, U91321, AC005755, AL136137, AP000704, AL050318, AC005531, AF168787, AC002350, AC005387, AC005952, AC010271, AC007731, AC005412, AC020552, AC002312, AC008753, AL034379, AL121653, AC005197, AL157838, AC008551, AL138787, AC005971, AC004217, AC007597, AF045555, AC018720, AL355385, AC006597,</p>

					AL138878, AC024075, Z93015, AC005071, AC011491, AC005015, AC005519, AC005500, AC021999, AC018755, AC008482, Z85996, AP001717, AC005684, AP000088, AC005225, AL022163, AL117258, AC004084, U80017, AL031659, AC011455, AF243527, AC004752, AC003109, AF053356, AC011514, AC005081, AL022323, AC020906, AC025430, AP000553, AP000558, AC004895, AP000503, AP001694, AP001725, AL035249, AC009123, AC000025, AC002316, AC004841, AC000353, AL161670, AC005274, AL136418, AL023807, AP001711, Y10196, AL162615, AL121658, L44140, AC005089, AC020663, AC004887, AC010618, AC002477, AC005082, U95740, AC005839, AL136295, AC011495, AC010458, AC008745, AC009032, AC005031, AP000501, AF109907, AC004878, AL157938, AL353748, AL109627, AP001726, AL137073, AL133355, AC020754, AC011450, AC006014, AL139353, AC005231, AL109935, AL121845, AF001549, AC006330, AC011484, AC002565, AL138706, AC009079, AC004475, AC006571, AC007384, AL031680, AC011497, AC005488, AC007308, AC004166, AF030453, AC007383, AL445248, AC004673, AL138976, AP000045, AD000092, AL079342, AC006483, AC002073, AC011489, AL109797, AL136304, AL023553, AC006344, AL121652, AC007739, AC010463, AC008055, AC007679, AL136300, AC005484, AP000692, AC007242, AC005098, AC010605, AL109930, AP000557, AC011480, AC005778, AL049840, AC009756, AL035681, AC005011, AC002400, AL135744, AC004019, AC005103, AC011442, AC008537, AC002476, AC002470, AC003101, AL121675, U62293, Z83844, AL138756, AC010553, AC005057, AC006064, AC008616, AL080243, AF001548, AL133353, AC006241, AP001630, AC008812, AC006057, AL078461, Z95115, AL117377, AL139289, AC004601, AX039602, AC005080, AC005837, AC007537, AC002425, Z83822, AC004150, AC004815, AL034417, AC006388, AC008474, AC005037, AC008395, AL132987, AL050335, AC005236, AC002492, AC004477, AL035072, AL135787, AP000113, AF047825, AL137222, AL031666, AL034420, U47924, AC004890, AC011895, AL133448, and AL008719.
HLDK20	15	553765	1 - 1300	15 - 1314	AL531625, BE249834, BE249869, AU133584, AU133954, BE293561, AV692312, AW957051, BE293519, AU135103, AA399208, AW176043, AV690099, AI904273, T60502, BF374345, AV655442, AW804571, AW804603, T70509, AV688378, H47199, H93928, AV694565, AV694238, T68223, T68956, T68126, T68045, AA337893, T69698, AW804991, AW804996, T68924, AW372297, T72305, AV696946, AV696947, AI301941, AA344625, T71155, T72771, T56196, T73042, BF992875, AI133687, BE392020, AV693194, BF848482, AW104835, BF369544, T74806, AI363265, T68644, T60607, AA779168, T68483, T67851, AV647855, T73703, AI266591, AR034619, S67310, L15702, X72875, AX014918, AF019413, X00284, K01566, M15082, and M59240.
H2MBD33	16	558474	1 - 425	15 - 439	AW957931, AW957932, AA308306, AI633677, BE538201, BE044997, AW856247, BF061419, BE787771, AW874580, AA503529, AW117709, AI613324, AI561159, AI732205, AA133693, AA747898, AU160258, Z19706, AA405171, AU156212, BG231867, AI498698, AA579013, U88573, A75315, AC016816, X87344, AC000117, AC004506, AC004522, AC004899,

HSYBX61	17	558708	1 - 1094	15 - 1108	<p>AC005075, AC005919, AL122002, AC019172, AC004977, AC008444, AC005771, AL160237, AC004066, AC025614, U73642, AC006024, AL359833, AJ009614, AC010470, AL021939, AL138773, AC009037, AC016941, AC013246, AL445189, AC010458, AC027329, AL121950, Z83313, AL049648, AL109921, and AC007368.</p> <p>AI950214, AI074445, BG114649, BF666951, AV705261, AI050761, BF215604, BF700368, AW665220, BF247160, BE958106, BF668544, AW901579, AA863199, BG105211, AW901581, AA933061, BF691307, BF081566, AU153641, W48793, BE701906, AW901558, BF363888, W49619, AA757163, AI127140, BF363884, BE812771, AW901562, AA406401, AU127328, AU120201, AW901572, BE701904, AV694302, AW901560, AW951188, BE938964, W24640, BE701884, AI207705, AW360819, AL041311, AW360785, T29223, AI765920, BF382797, AA747483, AW136630, N83385, R38385, AW900970, BF970590, BF885816, AW899304, N87392, AA693316, N89144, AI675151, AW900934, BF529885, BE767210, AI754509, BE464612, BG167754, M34064, X57548, X53615, S42303, AB017695, AB008811, M31131, AF097593, X07277, S45013, X54315, S45011, AF177682, Z27439, Z27440, and Z27441.</p>
HELHC03	18 -	562745	1 - 1161	15 - 1175	<p>BE262771, AI024014, H91016, H90904, AV695478, BE138594, AL036909, AI560085, AI537397, AI630283, AA744018, AV756491, AL038842, T74524, AW023302, AI888468, AI076236, AA181917, AA468022, AI678867, BE147833, AW965008, AC005048, AC005726, AC006050, AL139182, AL121893, AC005829, AL078591, U91323, Z84469, AL162615, AF196969, AC006337, AC011470, AL031777, AC005102, AL135901, Z93241, AC007934, AC005670, AC007263, AL353804, AC004895, AC004963, AL121891, AL050349, AC004906, AC000025, AC004983, AL117382, AC006011, AL034422, AP000563, AL354896, AL139099, AC008760, AB003151, AL157789, AC003070, AL049872, AC005412, AL162430, AC005859, AP000358, AP000065, AC011500, AL050332, AC011479, AC018738, AC005527, AL158141, AC009516, AP001711, AC005529, AL356354, AC007686, AC000379, AL109797, AL135744, AC002115, AC002546, AC005080, AC011455, AL008635, AL133417, Z95114, AC007785, AC004634, AP000501, AC007216, AC018751, AF053356, AC002312, Z97985, AC002550, AC005236, AL049795, AC010553, AL049780, AC005052, AL138807, AC005482, AF111168, AC005081, AC011442, AL445248, AC007055, AC036103, AC002425, AP000313, AL109743, AF088219, AC002091, AC010201, AC006552, AL133228, AC005840, AL137060, AC009399, AL050318, AC002301, AC007130, AL118520, AC006483, AP000133, AC010422, AL031575, AC011475, AC011523, AC007201, AC004916, AF109907, AF168787, AC006071, AL365212, AC004694, AC027319, AL133548, AC011495, Z94801, Z98884, AC002404, AC002395, AC008085, AP000194, AC004858, AL136298, AC018719, AL138893, AC011527, AC002369, AC011592, AL356750, AL389886, AC005409, AC008770, Z94056, AP000350, AL133153, AL132653, AC015651, AL031846, AL162424, AC083874, AC005755, AC004031, AC016831, AP001714, AC005015, AC007465, AP000555, AC008557, U91326, AC020947, AC020908,</p>

HOFMP70	19	585385	1 - 333	15 - 347	<p>AC005625, AP000553, AF001549, AP000290, AL139353, AL158198, AL109758, AC003684, AC007388, AL022067, AP000211, AC010326, AC005666, Z951116, AF002223, AC005324, AC003957, AL079335, AL355392, AL360227, AL122001, AC004150, AC008474, AC011895, AC007066, AC004675, AC006211, AL031681, AL109614, AP000117, AC005088, AC005622, AC011462, AC006141, AC005020, AL133415, AL049697, AL138752, U51244, U95742, AC006146, AC004707, AC008518, and AP001726.</p> <p>AU129119, AU132116, AU122873, BF985587, BE880467, AU134725, BF763276, AU127421, BF986272, BF752117, BF679945, AU131326, AU139214, AA314523, AA852641, AU129752, AA307371, BF696550, AU130590, AU118964, BG178180, AU131491, BF669193, AU136184, BF985661, BE410823, T68678, BF749656, AW239136, AA242999, BE620262, BF698331, AA375736, BE782468, BF965316, BF327652, BE876259, BE875957, BE796542, BE620043, BE389731, BE790649, T07406, BF570489, BE785080, BE745306, BF681401, AW579861, BF985601, AU128901, BE156508, AL036766, AU128389, AA375047, BF107335, BF985580, BG171811, T71831, BF985602, BF903411, T71811, AA362982, AV750113, AA092055, BE732006, BE731395, AU127766, BE156632, BE733317, BE273157, BF733809, AL044046, AW455795, BF107170, BF752590, AW363271, U01153, X15187, AK025459, X90848, Y09136, X76301, S74939, M26596, M33716, and AR032000.</p>
HSKNZ25	20	585675	1 - 674	15 - 688	<p>AI423388, AA705880, BF525904, AA349525, AA488891, AA836122, BF348027, AA465431, AI310146, AI302088, AA584447, AW968376, N46920, AU986100, BF753058, BE160619, AI077517, AL040766, AA890243, BE244498, AA325569, BE160856, AA771925, AA489237, AA126066, AV656598, AW372110, AW137313, AL039325, BF959941, AA046254, AW136539, BE072182, AA465360, AA917759, AW962078, AW816387, BE935535, AA573136, AW517075, BF903430, R45086, AW797195, AI368519, AA078308, AI022603, AI354688, BF761820, AI565643, AA810621, W87764, AW852367, BE149694, AV653343, BG010915, BF989770, BF762909, BF834278, BF897534, BF929290, AW861486, AI052645, AA280250, BF857730, BF857711, AW857610, AW857593, BE729724, AL118895, AW857604, AW938518, BE142184, BG105313, AA077547, AA577804, AA496279, BE089188, BE142866, BE142936, BE161095, AW888812, AW857605, AW945790, BF750582, BF813834, AI651771, BE089952, AW898784, AW845700, BE393138, AW902136, AW845696, BF953515, AL024458, AC005562, AC007204, AL031228, AL035246, AC012309, AC010632, AC003975, AC011460, AC007275, AC008821, AL445249, D28126, AC009489, AL122001, AC003682, AL121905, AC008537, AL136317, AL139277, AL022318, AC078899, AC002301, AL360088, AP000346, AC022137, AL033526, AC068948, AL133162, AL121985, AC006504, AC019173, AL132656, AC000397, Z95704, AC010328, AC008176, AC073898, AL161802, AL121932, AC006462, AL365505, AL031775, AP000431, AP001675, AC022148, AC008969, AC074331, AL035458, AL078614, AP001464, AC004976, AL109943, AC022596, AP000498, AL163202, AB026898, AL137070, AC008554, AL136419, AC010889, AC002049,</p>

HDPPK39	21	588869	1 - 736	15 - 750	AC002054, AC002472, AC008018, AC008813, AP000285, AL139008, AL109928, AL020995, AL121873, AC008752, AF017190, AC007664, AP000041, AP000109, AL031668, AC009424, AL021155, AP001715, AF017189, AC010522, AC008555, M32788, AL136130, AL023753, AF240618, AB019441, AL034407, AC007882, AC022150, AF196969, AC002041, AL136169, AL109923, AC022209, AC010645, AL121969, AP000345, AL158072, AC018641, AL163152, AL118502, AL121823, AL390865, AP000353, AC008739, AP001631, AB019438, AC008044, AC004979, AC000051, D87002, AC004924, AL035587, AL135960, AJ131016, AP001670, AL359204, AP001748, AL035086, AC006039, AL121772, S50469, AC012331, AC002308, AC005515, AC005070, AL096700, AC019063, AC006198, AC004045, AL133350, AL139090, AL359433, AF017188, AC016698, AC018673, AC008770, AC016995, AC026424, AP001660, AL049742, AC006001, AL121926, X87579, AL354872, AC008639, AP000356, AL032821, U64455, AC007981, AC023490, AP001671, AL132990, AL132987, Z49237, AC010506, AC023491, AC004706, AL109918, AP001233, AL139824, AC010854, AC011718, AJ223364, AJ289880, AC012330, AB000381, AL358777, AC008132, AP000350, AF017732, U71148, Z97988, AC016940, U64453, AL109653, AC013412, AC002507, U47924, AF270570, AL136528, AC010197, AJ276208, AJ276207, AF001550, AC007228, AB016195, AC005250, Z82975, AL359703, AC006359, AL163218, AC016816, AC005669, AC005820, AC006115, AJ009610, AF017191, AC010970, AC006339, AL021918, AC000385, AC008443, AF017192, AC005598, AC007717, AC008379, AC008553, AR036572, U91328, AC009405, AF224492, AL079338, and AL031723.
HL1AB07	22	638220	1 - 870	15 - 884	BF892783, BF894772, BE243071, BF892143, BF892796, BF892140, BF899235, M18044, J03925, J04145, AF268593, S52159, S52157, S52153, S52154, S52152, S52161, I19138, M76724, S52155, M82856, and U59801. AW410018, AI956068, AI140111, BE902158, BE410544, BE559955, AW009487, AW006443, BF237868, AV714206, AI301924, AI494409, AV717288, BG256432, BF976795, BG166509, AW080966, BE619019, W52136, AV709106, BE619682, AI189286, BE566002, AW084868, AI687212, AV711092, BF697110, BE567660, BE409695, AV710866, AI801202, AI032877, AW410017, BE568300, AI262521, BE963864, AI523891, AI184261, AV691952, BE091071, AV746007, AI566878, AA151257, AI144492, AA826477, AW083498, BE787965, BF851971, BE535774, AW410030, AI399980, N36966, BF435067, AI809283, AI018420, BF967855, AI819520, W30822, AI128356, AI025970, BE672642, BF081971, BF081981, AI880707, AA127920, AW779049, BF676071, AI206487, AW471111, AW028734, AV762883, AI150971, BF881900, AA889268, AA887476, BF858077, N36122, AI190417, AI127953, BF696643, AA843205, N38925, AI566572, AI066676, BE931182, AI990970, BE879114, BF028182, W37751, AA730086, H48432, C18042, AA142846, AI139565, AI688339, AA679046, AA588794, AA127971, AV716260, AA001534, AA719696, AI074105, AA642642, N42965, AV762116, AI375763, N47999, W67531, AV723563, AI627627, AA494298, AA973740,



					<p>AI016738, BF081942, AA151258, BE905596, AI225090, BE875848, W02508, H46679, C04154, T60074, BF678014, BG106733, H41469, BE270088, N69681, AA844464, AA430561, AA583307, AA461150, AV762407, AA127062, D19615, AI752939, R81805, AA025474, AI066496, W37750, H41039, AV745238, AI924481, AI924470, BE004170, AI344530, AW880670, H72482, AA018348, AA514449, BF475775, AA125939, H29277, AI004753, AI355113, AA844121, BF892448, BE825656, T35178, H22508, R81909, W31172, AA976620, F35745, H65927, H22469, AA917898, H18879, H20360, AA354526, AA460845, AA610792, AA844581, AI984747, AA532788, R89209, AA694042, H18878, R50840, N30666, AA834054, W67532, R89101, H58424, AA650593, AA018347, R82743, AW572104, N30666, AA834054, AA301393, BE463668, AI024508, AV683793, AI630440, H42928, AA343997, AV690683, N32244, AV689469, AA890629, AA433978, H46678, BF222315, BE866553, AW888410, AV685213, W25676, BE091036, AA084018, AA337082, AW088862, AA112174, R34238, T85674, H40286, BE568860, T34863, N94289, AV703344, H20171, W02840, AW380085, AW380101, AW948839, AW380091, AA353222, AI184040, T55401, H58425, AW380097, N51206, BF056703, AA650550, T55474, AV738416, H72883, AA054937, AA704634, R35565, AI198351, BF842567, AW885411, AA464336, BF967553, N46497, R32185, F24158, R32236, BE925396, AI612942, W92351, AX015062, AF161504, AF151884, AC007237, and AX014860.</p>
HHGAS83	23	654868	1 - 833	15 - 847	<p>AL533363, AW156912, AI816293, BG178409, AL533268, BE780411, AW157766, AI798138, AI963352, AI928783, AW262125, BE791202, AV759165, AI674833, AI039883, AW162562, BG178768, BE877936, AV722302, BF571229, BF339857, AI830091, BF126571, BF674685, AI986467, AW148939, BF345205, AV711322, BG236045, AW272546, BE872856, AV723940, BG163828, BF967950, BE745145, AA572799, BE899054, BE615020, AW161689, BF529506, AI206329, W93860, AL533542, BE799051, BG232073, AI200704, BF973309, BF679748, BF974878, AI199823, AI817392, BE184997, BF967861, AV710824, BF338381, N25541, AA669821, AV702224, BF528571, BF530905, AA593762, AV157587, AW157474, AA128267, BF974287, AV711487, AW029137, AA577607, AV707789, AA864492, AV733623, AI077676, AA576598, AA575898, AA708990, AA843178, AI338574, BF239951, BF820971, AI832599, AI139644, BE273067, AI745646, AI340072, BF210950, BE165278, BE206608, BE614815, BE165293, BE165267, BF700461, BF821744, AI276918, BE165274, BE165284, BE874868, AI630859, BE165285, BE165295, BE165281, BE165287, BE165289, BE165094, BE165276, BE165272, BE165273, BE165275, BE165110, BE165296, BE165286, BE165277, BE165157, BE165165, BE165084, BE165294, BE165290, BE165087, BE165271, BE165077, BE165089, AV734637, BF351286, BE165095, BF772629, BE165270, BF339501, BE165078, BE844143, BE165088, BE165099, AA814150, BE122846, BF967319, BE810478, BF342269, AW386221, BE165090, BE279632, BE165085, BF351288, BE165116, BE165091, BE165098, AI139451, AI673724, N34138, BE165092, AA970318, AA506290, W67498,</p>

					BF70073, BF216394, BF680640, BE793193, BE165292, BE938895, BF924501, AV733983, BE763913, H42152, BF820364, AI923629, W90644, AW953889, H43136, AW953838, AI523448, AA029738, AA034262, BF737798, BF346328, BF821748, AA507762, BE973916, BF351295, H01957, N21386, AI191285, AI085683, AA480834, BE165106, BF772626, AI660175, H42506, BG230993, BF351292, AV742697, BF665930, AI754274, AI907958, BF820365, BF674337, BE165101, AA029498, AA740348, BE785360, AA506938, AA457725, AW005610, N20640, H26094, H42476, AA010689, AA039989, N36838, AI167980, AV755945, BF448586, BF815571, BF675649, AA642726, AA455488, W74383, BE165269, BE165280, AI754434, BF967367, AW938715, BF739156, BG164837, F32477, AW511436, R99698, BG171345, AV744421, R79563, AA129366, T34865, AI753955, N36170, W27617, AA845291, BF772634, AV729590, AV725066, BE122839, BF737242, H25701, W79200, AA629624, R99713, BF375128, AA126699, AI866674, BF698421, AA551974, BF574054, BE122838, BF737793, BF351314, AC003688, AF067171, AF183425, AF044671, AF161586, AL050182, AJ297742, AF161587, AF161588, and U65413.
HTSGU37	24	704405	1 - 502	15 - 516	AW163711, AI815378, AL524692, AA813566, AF019406, AL050341, and M95610.
H2LAN34	25	705692	1 - 530	15 - 544	AA314140, AI623759, AW954842, AV747509, AA768701, AW005593, AI420537, H65282, AW469272, AW469280, AW959628, AW966534, AW966053, D58283, AW975618, D80043, AW966029, D57483, AW964756, AV699550, D80253, AW973334, AW958993, AV718489, AW978661, D80164, AW966531, D80366, AW975621, AW959799, AV699447, AV718440, AW960465, AV720028, AW978634, D80022, C14331, AW958992, AV718770, AW965163, AW949641, AW973541, D59467, AW966022, AW965177, AW973485, AV718844, D51423, D59859, D81030, AW966041, AV719783, AW966013, D80391, AW966065, AV720464, D59787, D80166, AV722801, D80195, AW959570, D59275, AW978648, D59619, D80210, D51799, AW964488, AW960553, D80240, C15076, AV719822, AV720791, AW966054, AV720203, AV718692, AV720731, AW966050, AV719188, AW973307, D80227, D80188, AW966062, AV719324, AV718938, D80024, D59502, AW959597, AV718633, D50995, AW975605, AW962082, AV718800, AW965197, AW965184, AV720211, AV718931, AV719557, D80196, AW973474, AV723927, AV724520, AW959136, AW959062, AW964477, AW956434, AW949656, AW949654, AV699927, D59889, AW949642, AW959202, AW960532, D80212, C14389, AW965158, AW964737, D80219, AW949632, D59927, AW973482, AW965185, D80269, AV718530, D80038, D50979, D80193, AW966075, AW949629, AW949633, AW962245, AW949645, AV719468, AV718707, AW949657, AW965175, D59610, AW960473, AW966059, AW956397, AW949653, AW949646, AW949658, AW949631, AW965196, AW949643, AW949618, AW973488, AW949655, D80378, C14429, AA305409, AV720878, AW959469, AW975613, AV701004, AW973330, AV720812, AV721386, AW966043, AW966023, AW753053, AW959582, AV723097, AW973447, AW960504, D80241, AW960564, AV700889, D80045, AW975623, AW960570,

HPMBZ40	26	711500	1 - 882	15 - 896	<p>AW966030, AW960454, C14014, T03269, AW178893, AW752082, AV700229, D51060, C75259, AV720654, AW973465, AW965176, AV742001, AV742667, AV701125, AV701335, AV701166, AV742430, AC012627, AC008554, AC011477, AC007204, AC024563, AC008626, A62300, AX033851, A62298, A84916, AX027925, A132110, AR070327, AR018138, AX047063, AX047064, X67155, AX021518, A25909, Y17188, D26022, AX035434, AX020191, A67220, D89785, A78862, D34614, AJ302649, AR028130, AR025207, AR087649, D88547, AR008278, X82626, AR077702, AB028859, AR074545, AB012117, X68127, AX015396, A82595, A94995, AJ294956, Y12724, AF260572, AR074545, AB012117, X68127, AX015396, A82595, A94995, AJ287395, AR088705, AB002449, A85396, AR074141, AR066482, AR060385, A44171, AX042372, A85477, AR008443, I19525, A86792, X93549, I50126, I50132, I50133, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AR054175, AR074139, AR066490, Y09669, A43192, A43190, AR038669, AR008277, AR008281, A18367, A30438, D88507, I14842, D50010, Y17187, AF135125, AR008277, AR008281, A18367, A30438, AX035428, AX035426, X64588, AR008408, AR091537, AR062872, A70867, AR093385, AR016691, AR016690, U46128, D13509, AB033111, A64136, A68321, AR060133, AR087528, I79511, AR071754, AR064240, AB037923, U87247, AB023656, U79457, AF123263, AR032065, Z82022, A63887, X93535, and AR008382.</p> <p>AW104075, AA322168, AA318382, AW382134, AA559937, AA635043, AA309573, AA664669, AI890563, AA747333, AA083698, AI002831, F31565, AA327808, AA640478, AA307971, AA101115, BF438598, AV656583, T41261, AA962042, BE147478, AA614771, AA548695, AA179423, AA657363, AV709285, AI708675, BG121326, AI350430, AW393836, AW393837, AA083697, AA171770, AV393902, T59870, F21378, AA679905, AA515952, F20900, AA828709, AA179773, AA230071, AA327627, T58575, AA669666, AA340945, T73373, AA805827, AA328641, AA729868, F31199, AA729864, AW378613, AA182721, AA130896, AA364450, AA229102, AA299112, W32976, F29405, AA888657, AA328937, AA079176, AA383431, F33309, AA363495, AA328075, AW361074, AW059576, D11891, D51386, AA502814, AA507714, AA299168, AW582136, D11796, F17656, AW378614, BE747323, BF437529, AA746958, D55360, AA484708, AA767968, AA627228, AA507186, AI708996, AA082512, D52903, AI302193, D53594, AA329939, AA341403, AA827269, AA172100, T53280, AA748072, BF906802, AI302449, T53153, AA304439, AA341417, AA962113, AA522638, AA604015, T63562, AA484205, AA593695, N68907, T94322, AA501477, AA181035, AU122870, AW276534, AW304926, AA583572, D12365, AA180490, AA507806, AI628828, AA630793, AU122870, AW276534, AW304926, AA583572, D12365, AA180490, AA507806, AW270722, AW104696, AA578036, AA053440, AA773121, AA128815, AI679291, AW085649, AA621862, AW058229, AA736894, AA480608, AA665010, AI884565, AA321126, N31278, AA187890, AA244150, AA747111, AA191223, AW270043, AA593407, T50429, W52460, AA132470, D53323, AA328902, AA159715, D54432, W68495, AA167322,</p>
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HLYPE52	27	732342	1 - 998	15 - 1012		<p>             BF971932, BF237781, A1733886, A1963716, AA573832, AA987495, A17058614, AA128438, H51921, BF732971, H27808, H94212, AA993608, A1159855, BE872759, A1469694, A1828778, W69653, A17873554, A1688311, N77573, BE898545, A17601461, A1741570, BF831400, AA160897, H49117, A1348273, H27183, AA158489, H44990, H92982, BE884960, A1709626, AA159945, BF873908, A1795832, A1795829, BE140739, A1816555, AA846337, H28378, BF810845, BF813075, A1816592, BE140751, BE140728, W69654, A1984845, A1961817, F15634, A17954779, R72015, AX011711, AF035771, AR070449, Z50150, AF004900, U82108, AC005600, AB016243, AB014460, AB026489, AB026490, AP001038, AP001732, and AP001039.           </p>
HTTEC47	28	745343	1 - 1010	15 - 1024		<p>             AU131337, AL133785, AU117996, A1798884, AU116829, A17847640, BE142866, A17836282, AU120388, AU121070, A1707591, BG170577, BF673669, BF345679, A17833146, AU137603, A17833143, A17649129, AA683309, A17976291, AU139654, BE144683, A1114469, BE062166, BE144698, A17836280, A17902129, BG109731, A17813625, BE157028, BE158876, BF513132, A1731068, A1731522, A17833033, A1731034, BF746208, BF770900, A17833187, A17854788, A17832969, BF800480, BF929942, AU122701, BF675777, A17813623, A17820037, BF830719, A17819804, A17819805, A17936057, A17819798, A17835724, BE066033, BF244129, A1731276, BF748007, AU119706, BE009738, A17853622, BE066010, BF853047, A17820049, BF675045, A17820116, A17835725, BE066035, BF808065, BF997232, A1712125, A17246137, BG164408, A17819881, A17820040, A17820126, BF944744, A17819806, A17845700, A17877560, A17835642, A17853349, BF754324, BE780891, A17845696, AL045241, AL046683, BF964660, A17820052, A17833180, A17817951, A17819969, BE062378, BG104752, BF756986, A17820114.           </p>

					<p>AW819799, AW820115, AC022596, AL008633, AL359763, AL096803, AC020717, AL138702, AC024092, AC060232, AL161730, Z82211, AL022577, AL035464, AL035090, AL137251, AL133406, AL356022, AL033530, AL355590, AL121938, AC007179, Z82205, AL139395, AL049844, AL390023, AC024247, AC010175, M22334, AL080284, AL157360, AF064862, AF003535, AL034403, Z82899, AC008604, AL161804, AC048346, AC012082, AC002429, AC006479, AL030996, AK021593, AL133417, U65397, AL022144, AC004103, AC007090, AC013410, AL445143, AK024101, AL163281, AC008518, AC002072, AC010235, Z82212, AF126403, U93574, AC016751, AL135918, AC023481, AL158206, AL031054, AC022335, AL139229, AC007159, AL049562, U93572, AC003106, AL445196, AC004531, AL132821, AL135936, AC003990, Z73965, AL390022, Z81009, AC004954, AC007253, AC003091, AL033524, AL121933, AF196972, AL034427, U93563, AC005609, AC004673, AC012442, U93571, U93573, AF149422, AC004917, AC007785, AC068069, AC005993, AP001690, AL136307, AL049629, AC005739, Z81145, AL021069, AC020550, AL096862, Z79699, AC006079, AL356962, L81652, AP001671, AL133500, U93569, U93566, U93565, AC0078918, AL035258, AC008456, U09116, AL117191, AF248484, AC006070, AC015971, AC016623, AC003083, AC007204, AC007214, AC005686, AC008716, AL133249, AC005384, AC007558, AL109800, M22333, AC004029, AL161905, AC007000, AL109656, AC005823, AL359846, Z95400, AF148856, U93570, U93568, AC017089, L19092, L19088, M80340, AL121825, AC003085, AC022542, AC009262, AC004748, AL121868, Z82195, AC006383, AC008394, AC008178, AC002564, AL365276, AL035397, AC002523, AF064865, AL365508, AL136442, AC012472, AL445439, AC020647, AF127577, AC006559, U69729, AC007400, AC006287, AL020992, AL353587, AC004063, AL139109, AF110324, AC005230, AC008561, AC004058, AC024094, AC007488, AL136970, Z98751, AF149774, AL031665, AL365475, U93564, M80343, AL161659, AF036235, AC009319, AC022224, AL121755, AL445306, AL031115, AL353140, AL135879, AL121790, AL357153, AL121591, AC005994, AC008550, AC078845, AC019212, AL008987, AF172277, AL133370, AL121943, AC005024, AC010461, AJ010598, AC006992, AC005915, M19503, AP002534, AF225898, AL033538, AL390035, AC004389, AL163207, AL109845, AC008436, AL359755, AL049555, AL121757, AC003098, AL049796, AC019050, AL109805, AL357507, AL136441, AL445192, AL049563, AL049828, AL109620, U93562, AC010176, AL136296, AC026888, AL050329, AP000347, AL139192, AL121900, AL163278, AC005201, and AL354777.</p>
HOFMO90	29	746416	1 - 428	15 - 442	<p>AI929681, AW592729, AA648798, BG259038, AW250255, AW245532, AW651722, AW573263, AW250589, AI015535, BF031458, BF764886, AU124917, BF794818, AU125620, AU141564, AU142862, BF763514, AU125790, AU143619, AU120837, BE886545, AU125751, AI220039, BE258310, BE925039, BG005263, BF739929, AA024938, BE895457, BE383414, AA467947, BE276994, BF986402, AU125668, AA250731, BG251310, AU131885, BF219963, BF027149, I36005, BF218581, BE797690, AA211028, BE891460, BE885888, BF026383,</p>

HCND34	30	762806	1 - 816	15 - 830	<p>AU143011, BG252532, AL536067, AL538416, AL518012, AA471174, BE727048, BE792076, BG121144, BF979650, W40299, BG026681, BE299425, AV749633, BE547012, BE902225, BF025777, AL040485, BF303752, BG169183, R17987, AL533385, BE538688, AL518448, AA471318, BE798701, BF307303, AA313413, BF306715, AA074578, BE122769, BF206640, Z41942, BE244339, AA181660, BF205625, AA196912, T35534, N56034, T74205, BE269688, BF304135, AA258411, BE385651, AA092564, BE156028, AF046001, AC005899, AB032196, and AB013357.</p> <p>AL538129, AL525022, BE872112, AI111183, AI114736, BE896548, BE877234, AI174851, AV705883, BE875361, BE881218, BE881076, BE880128, BE879304, AV706307, BE875412, BE874647, BE879135, BE877386, BE877647, AV729201, BE898937, BE881222, BE876531, BE875889, AV726346, BE878894, BE875858, BE876704, BE874520, AI133323, AI133348, AL513828, BE880711, AV728251, BE879909, BE876043, BE878122, BE877496, BE876719, BE874662, BE877268, AV706779, BE878178, BE879695, BE876425, AV729465, BE873343, BE891387, BE867307, BE877150, BE877004, BE874747, BE875792, BE878626, AI147501, BE870155, BE877131, AV729314, AI750078, BE876651, BE877390, BE880762, BE898750, BE873954, BE874215, BE877497, BE874926, AV693283, AV725309, BE877757, AV705995, AL048390, BE873478, AV725316, BE880690, BE878213, BE879455, BE892487, BE874003, BE876550, BE897096, BE898560, BE877488, BE880425, AV702923, BE875968, BE891700, BE874696, BE877643, BE879522, AI749163, BE876062, BE870577, BE897811, BE876098, BE877242, AV710316, AI065146, BE868548, BE896982, BE899424, BE880602, BE876884, BE868527, BE879775, BE869133, BE874445, BE875601, BE868532, BE874422, AI114553, BE878330, AI110700, AL036120, BE875438, BE869149, BE879302, BE877542, BE898986, AV726493, BE879410, AV706277, AV760899, AI114569, BE876037, AV721544, BE880237, BE876785, BE879859, AI133444, AV726351, BE879895, BE867317, BE878477, AV709557, BE877726, BE878238, BE880722, BE898371, BE880140, BE875261, BE877598, BE875955, AI133486, AA639334, AV706033, BE878677, AV708006, BE875918, BE878422, BE881146, BE868603, BE881693, BE877813, BE896992, BE895621, AV702580, AV714977, BE879413, BE877674, AI174902, BE879761, AV709615, BE875062, AV723290, BE881506, BE880977, BE875398, AV705696, BE543600, BE894635, BE880958, BE880950, AV723029, AV583759, AI114723, BE878900, BE878010, BE880947, AV721627, AA723026, BE868786, BE874402, AV707010, AI721239, BE875536, AV723395, AV702695, BE881638, BE879688, BE878173, AV659215, AV708355, BE880276, BE877271, BE876568, AI833114, AV721920, BE881057, AI110881, BE880427, AI207615, BE880442, BE875310, AI110734, AV759353, BE881359, AI114585, AV708529, BE878468, AV721831, AI609232, BG179400, AV722162, BE881594, AV722611, AV702323, BE878381, BE881411, BE878333, AI720161, BE895091, AI114699, AV706568, AV726110, BE880705, AV700257, AI733732, AV583569, AI133302, BE877616, BE894655, AI110877, AV721391, BE880758, AV706979, AV705894, BE878086, BE877479,</p>
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HAMGI86	31	785328	1 - 653	15 - 667	BE79580, AV721794, BE873841, BE868332, BE875382, AV724988, AI133691, BE874084, BE894924, AV727742, AR083056, IZ7367, X54629, AX039612, X62996, V00662, X93334, L08441, D38112, D38116, AL359334, X93335, D38113, X93347, D38114, X97707, AF134583, AF175976, U35430, Y10129, X84075, AX026544, AF004341, AF175985, AF144745, AB005335, AC007282, Z79403, Z79419, Z79459, AJ752237, and I07623. AL520509, BE407109, BE312514, AW294706, N23047, N28711, N23224, AW517021, AA039977, AA287636, AA286793, AW136370, AI362850, AA382819, BF684630, AW409954, AA312796, AJ565859, AA312800, BF795529, AA382325, BF211504, BF184364, BF102863, BG106081, BF220088, BE279764, BE902929, BF239561, AI240475, AA229436, BE162216, AW590207, AW673504, BE338140, AA324312, U35117, U75488, A67520, UI8422, S79780, L40386, AL080206, and A67526.
HLWCN67	32	794213	1 - 677	15 - 691	AW978308, AA369775, N53897, AA807270, W95818, W95857, BF724803, AI125532, BG117266, BF968973, AU128956, U69567, BF102704, BF965471, BE770768, AV758189, BF111890, AW274041, N55318, D45459, AA301769, AA434064, BF002861, C04552, BG001662, AI569610, AA610288, AW580433, AK002172, AF090904, AB020703, AX029226, U95000, AX029228, and X64411.
HOFAC09	33	806819	1 - 854	15 - 868	BE739621, BE379183, BE617330, BG108163, BE619662, BE748774, BF570337, BE305001, BG249872, BF569120, BE612784, BE619823, BE271125, BE619946, BE617896, BE271060, BE300237, BE617937, BF966616, BE738551, BF340609, BF688981, BG257657, AV713811, BF974766, BE293496, AV717562, BE293387, BF689303, BF220284, BE748652, BE619923, AA642201, BF688590, AI174682, BE279777, AV715664, AA641148, BE299551, AV652787, AI174681, BF683366, BE747352, AA857839, BE872623, AV718269, AA640951, BG105683, BE778293, BE393602, BE546109, BE250635, BF982878, BE531162, BF570115, BG178614, BG179165, BG163531, BE531088, AV717782, BE613177, BE902527, BE271042, AL514500, AA858434, BE738219, AA837571, AV685977, AV756374, BG034916, BE740524, BE262924, BE378440, BF984231, BG029312, BE388222, AV684312, BE748508, BG256740, AV702438, BF237938, BE408065, AI817627, BG163462, AW001149, BE622882, AU128631, BG180980, AV688195, BE260549, BG255882, AI708325, AV684830, BE881395, BE788254, BE787490, BE249917, BE909118, BE305209, BE735960, BE397738, BF982126, BG256362, BF686276, BF237724, BE559874, BE266498, BF059086, BE251388, AA632140, BE787304, BE300231, BE293776, BE547987, BE439558, BG250330, AA642980, AV698344, AV715876, BE794978, BF125097, BE793931, BG256096, AV685452, BE388457, AA857476, AW149599, BE889684, BE617898, AV714051, AV688156, AV684821, BE619643, AV717638, AV717113, BE737518, BE545839, BF965676, BE748476, BE250538, BG029641, AV645505, BE736394, BF983033, BG027429, BE745157, BG180061, BG113341, BE512833, BG168282, BF696011, BG118147, BE394485, AV716748, BE728375, AI749591, BF340890, AW001147, BF184101, BE250051, AA551057, BE903863, BG114266, BE305190, AV709267, BE293782, BE549134, AV714025,

HRDEL61	34	824886	1 - 810	15 - 824	<p>BE787082, BE867785, BE293862, BE270866, BF241730, BF726447, BE293418, AL515432, BE549236, AL048321, BE250128, BE547824, BF686567, AV704265, AV689285, BE746994, BE305240, AA641228, BG122667, AL047780, AI114669, AA551126, AA663427, AI816286, AA628465, AW170178, BG180666, BG254849, AA573113, BE408039, BE256744, AW327938, BF036883, BE249983, AA573126, AA307742, BE513000, BE540263, BE781757, BE785532, BE745552, BG253393, BG248626, BF345711, BG028606, BE786948, AV685448, BE742152, BG114313, AI660952, BE788601, AI826591, BF317338, BE903912, AA146900, BE618614, BF314522, AA961746, AI246524, BG109603, AA603104, BE797431, BE730353, AL513894, BE548848, BF122989, BE614351, BG179616, BE379047, BE542702, AI660290, BF793939, AI066797, BE907279, BE260599, AI890877, BE740911, BG164827, BE300246, BE267892, BE538628, X15096, Z29530, X15267, M17885, AK001313, AF013214, AC004263, AL133163, AF044496, L28704, AB007187, AF162483, AF132973, and AF155662.</p> <p>AI696793, AW162288, AV703259, BF821897, AI358089, F13749, AW819125, AV726885, AI963720, AV701116, AA071334, AW419262, AI821881, AI821918, AW504224, AL046409, AI745151, AA654781, BF750422, AA579179, BF821009, AI284640, BE301111, AI431434, AW410402, AA533033, AI076236, BF529327, AL120343, AW979204, AW406755, BF767028, AW753399, AA715814, AI358229, AL079645, AL037910, AA659627, BF668217, AW518220, BE138594, AL046746, AA410788, AW500684, AW021116, AW500029, AI755214, AI754105, AA581903, BE062729, AV764259, AI754567, AI613280, AW504686, AW858127, AI537538, AI623764, BG236628, AW872676, AI431303, RS9567, AW504297, BE676915, AV740009, AV710482, AW673221, AI732151, AW575165, BG000961, AI133164, AW576251, AV761519, AI821714, AI792133, AI791913, AW970877, AW975049, AW157005, AA563770, AW276827, AW964231, AI733856, BF916934, BF589066, AI623423, BF678990, AL118991, BF677892, AA657835, AI620585, AI610920, BE049229, AI049676, AV735495, AA610491, AI281881, AW023111, BF805088, AI783911, AV761745, AI270117, AI636627, BG036665, AI821785, N23260, AW089589, AI457397, AI028510, AA878149, AW501806, AA130647, AA603323, AI054333, AV710066, AV742057, BF915247, AI963221, AV763583, AV761810, AW271917, AW833862, AW089322, AI017251, AI251034, BE300580, BF942454, AL134330, AW193265, BE139139, AW081194, AW499745, AI732764, AC002350, Z85986, AL136984, AL035701, AP000557, AI157877, U85195, AF047825, AC004983, AE000658, AC007957, L77570, AC004536, AC005899, AC007850, AC007537, AL136443, AC011449, AL137070, AL139039, AL133551, AC004985, AL121871, AL031053, AC005522, AL078614, AC023490, AC010463, AC008924, AL035071, AC008821, AC016655, AC007620, AL136097, AC008123, AC025588, AL354696, AC005086, AL137139, AJ239027, AL138828, AC008745, AC016898, AC055740, AC006057, AC004804, Z72521, AC006368, AC011464, AL133163, AL136317, AC004253, AL080285, AC011510, AL136296, AC010977, AC020910, AC010419, AL109804, AP000311, AC010087, X62357, AC018755, AL445195, AC006285, AL365505, AL357560,</p>
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HPRTS71	36	828574	1 - 1032	15 - 1046	AK026408, AF119337, AR013797, AF113019, AL162083, AF119878, AR083266, S36676, AF097996, AL080159, AB041801, AB050410, AK000137, AL137461, AB047941, AF210052, AK025209, AF110640, AF120268, AK027213, AK026746, AK025632, AJ299431, AL122100, AK000250, AB050431, U87620, I09499, AF130082, AL050146, AF061981, U80742, S79832, AF106657, AL050393, AF022363, I89934, AL133560, AL080086, X87582, AL110196, A07588, AL133645, AL117578, AF130077, AF113676, AK027137, AF102578, AF106862, AK000647, AF130059, AK026865, AK027105, AL133067, AF230496, A65341, AL117438, AL050277, AL137478, X83544, AB050418, AF227198, AK025084, I46765, AK027144, AL353940, AK000391, E01614, E13364, AB047904, AK000718, L19437, AF119336, and AF090943.
HOHB190	37	828862	1 - 405	15 - 419	AW118056, AI800662, AI589171, BF591232, AI188335, AW082251, AI818095, AW021236, AW591559, AA648866, AW246660, BG230460, AW452998, AI083735, AW835356, AJ167977, AW468639, BG109889, AI470164, AV651830, AI334390, BE673379, AA741201, AL523450, BE070373, BE070459, AA643779, BE070441, BE548231, BE696414, AI248596, AW062368, BF055036, BF111561, AA614258, AL037459, T92093, AJ420092, BF741961, N79460, AW393612, T92929, AA649698, AA716590, T93045, T29513, N98655, BF089688, T98007, R28667, AW974688, AI470059, BG179958, AI520746, T92007, AW514438, AI565207, AI252942, AI014682, AI276530, AA707158, AW580299, AA847513, BF803888, AI224129, AV747633, AA452013, AF305057, D00596, X89602, and X67098.
HOHAL47	38	828872	1 - 907	15 - 921	AA021223, BE548133, AL045143, I15526, I15525, M76125, AC011510, X57019, X59560, X63535, and X66030.
HYASE58	39	829298	1 - 820	15 - 834	AU132881, BF220328, R87908, BE613810, AW250257, AA931266, AW015928, BF095373, BF09602, BF095352, AW502696, BF796996, AA370819, AW502753, BE327008, N49168, AI800258, AI738786, AI651019, BF431451, BF891293, AI341119, BE464154, R87900, R87888, BF761409, BF761414, BF761411, BE672137, BF766414, BF761395, BE551754, AB020866, L27841, and AB029291.
HKAAH95	40	829958	1 - 569	15 - 583	AL520115, AL520114, BG249568, BE858532, AI719186, AL524961, AA978354, AI963126, AW168149, AI016474, BE464809, BE541556, AW274265, AA126722, AA948354, N95214, AA779559, AI143841, AA988766, BF109578, AI052155, AI057145, AA868690, AI123988, AA862955, AA531469, AA565025, AJ040746, BE315358, W58681, AA883150, AW973071, F27739, AW469738, W25247, AA677158, AA136191, R72558, AA137218, BE774145, BG163522, AW804292, T85571, R06411, BE559994, AI369527, R06410, BE931292, W58682, T85572, BF984740, AJ202246, BE771601, AW204406, T98604, T98605, AA126819, BF804866, M29971, E02953, X54228, M60761, M31767, M84524, S61804, M76704, X54862, X65081, AL355531, S52068, S52071, S52289, AR040785, and X61657.
					BF968527, BF972443, BE888293, BF245922, AI432365, BF984449, AI376939, AW959079, BF111350, AI809862, AW967166, AI708626, AA743821, BE274422, AA316016, W31195,

					<p>AI800592, AI475502, AI693918, AI709386, AA788752, AA554691, AI077974, AU150242, AA082177, AA308664, AI129002, AW963595, AA815094, AA064826, AA826696, BF109200, AI830845, AW959077, BF687634, BE879836, AA133252, AA064769, AA129757, AA187005, AA527421, AA760765, AI300800, AA650336, AA100960, AA083271, AI185271, AI015127, AA805805, D53222, AI244634, AA873340, W38586, AA372743, AA357610, AW151779, AW006731, AW592333, AA533279, AA372493, N90200, BF326039, AI434196, BE168715, AW804095, AA303407, AA303583, D30971, AI023237, AI188378, AA876652, AI074752, AA721457, AI880398, AA935370, AA079099, AA313040, AA226394, BF326038, AA091473, AA045674, AA302617, BE815031, AA045675, AW117957, BF326043, AA083230, AA249292, AA385455, BE004885, AA216127, AA523135, AA079126, AA724213, AA766192, AA902562, AV759831, AA491262, AL110170, D17041, AA527902, AA632078, and AA769476.</p>
HTTIQ02	41	829981	1 - 440	15 - 454	<p>AUI33091, AUI42098, AUI41602, AUI34034, AUI35799, AUI41415, AUI36549, AUI41554, AL520149, AUI41624, BF309998, N44941, AA165467, BG164969, BF305751, AA370928, AI025054, BE544595, BE297897, BF203543, AL047272, AA490707, AW998147, AW998144, BE719597, AV650018, L19871, UJ9118, and M63282.</p>
HWACG91	42	830195	1 - 647	15 - 661	<p>BG033793, BG255945, BG259666, BE730050, BE794184, BE280411, BE262457, BE407137, BF974510, BG260129, BE387574, BE250058, BE729393, BE900244, BE280432, BF317365, BF975884, BG255124, BE384164, BE875157, BE275535, BF697620, BE249873, BE729424, BG104941, BF528476, BG178885, BE389393, BE742299, AA160739, BE279276, BE730823, BE730234, BF696116, AI905415, BG169584, BG248765, BE409699, BE409459, BE383471, BE279295, BE514728, AI693883, AI906409, BE733527, AA133328, BE734917, BE747004, BE778282, BG120073, BG116573, AI906399, BG252553, BG250627, BG115053, BF205427, AA932527, BF974800, BF976607, BE275617, BE747869, BE258222, BE899354, BF667612, BE732117, BE394529, BE019949, BE255854, BF663000, BG115598, BE270894, BE877328, BE894791, BE742367, BF981923, BG025205, BE270877, BE313842, BE277239, AW246075, BE731739, BF689778, BE266619, BG122027, BE275677, AW327437, BE958080, BE293564, BE741359, BE279606, BE262807, BE731616, BE278518, BE797742, BE280931, AI906381, BE259001, BE620197, BF342810, BE278592, BE269494, BG033349, BE799713, BE252649, BE790350, AA069850, BE744820, BE731628, BE958554, W28216, BE269344, AW246351, BF665331, BE409170, BF346422, BG025476, BE892710, BE251197, BE729414, BE395317, BE747019, BE379494, BE535406, BF980658, BF309487, BE910196, BE795220, BG260707, BG255740, BF310723, BE265360, BE297749, BF311424, BE409537, BG165401, AA186725, BG034975, BF310637, BE744823, BF339822, BE883169, AW675050, BE884838, BE275911, BE394260, AI905506, BE736798, AA131028, BE296169, BE385509, BE735183, BE273644, AA160637, AA157966, BF796949, BG171791, BF103552, BE278910, BE735411, BG260083, BE895233, BF206952, BE264220, BG255060, AA313667, AA076309, BF149164, BF797136,</p>

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HUFBX52	43	830497	1 - 1969	15 - 1983	<p>AL513910, BF338363, AI799888, BE392997, AW316671, BE044614, AL042665, AA114835, BE394176, BE857118, AA114976, W51953, AV702013, AI972232, BG025156, BE673213, W52502, AW205785, AW137401, BF879476, AI498690, BE504635, AI870560, F33285, AI696138, BF847455, BF847461, H42144, AW797536, AW580466, AI383137, BE504647, BF194734, AW291200, AI567040, T58430, AV707626, AV705123, AV702887, AV705196, T58462, BG104539, T29553, AV705977, AI972231, AI951152, AA593693, AW873877, T47089, AA393219, AA036671, N77388, AV706493, BF093800, AI686156, AV703987, AA575857, AW959494, AV702830, AV701517, H42145, R00971, T47088, AA063592, DI1534, R00972, BF826969, BF345006, BF766206, BE840120, BF378651, N52428, AV707224, C01052, U24488, M25813, X73959, Y11915, X87243, AL049547, AF077974, S38953, U89337, AF019413, X71937, L26263, AB010266, AC006289, AF030001, AF049850, AB015623, M83939, U24489, AF086641, M12792, M12793, M17252, M26856, M28548, M26857, M13936, M13935, M11267, M12918, M64933, AB039881, U56853, U56854, K03234, M92836, and M15009.</p>
HWLJB49	44	831453	1 - 510	15 - 524	<p>BG251415, BG027650, AV716313, BE744852, BG168126, BE875004, AV712837, BE563257, BF183014, BG113939, AV701796, BG260019, BF244649, BF974779, BE740291, BG114363, BG033325, BG027799, BG169309, AV722365, AV712753, AI887549, BG027575, AI076353, BF725392, BG167147, BF663267, BG059083, BE300764, BE742593, AA806402, AI682046, BG027579, BG255168, BE906641, AI188649, BF967533, BE513190, BF182834, BG180632, BG113207, AI144531, AI149488, BF345318, BE675790, BG026111, AL048205, BE207355, AW277103, AI612881, AI761676, AI299022, AI270732, AA308274, BF575148, BE379881, AW005575, BE675232, BE729684, AI302970, BF684952, BE259873, AI748792, AI832372, AI342462, BG255930, BE728928, AV304345, AI917533, BE388883, AA308142, AI270352, AA315030, AA314014, AI720893, BE208370, AA181838, AI370898, AA314940, AI735477, AA316359, BE909454, AA582161, AA313264, AV705734, AA316330, AW338556.</p>

BE730906, AW054848, AW270408, AA316482, AL048204, BF684518, BE730368,  
 AA128653, BF182887, BG248959, AE622771, AA708600, AA316966, BE388426, AA552413,  
 BE907370, BF210707, AA316871, BE730617, F20821, AA316230, AA059344, AA608518,  
 AA778388, BE785770, BE408695, F22738, AL735055, BE729560, W42494, AA314690,  
 AA186781, N57485, AA316119, AA151389, AA188023, AA315181, BE794778, AL571338,  
 BE906523, AA308375, AW873255, BG180555, BF346776, AA501758, BE905876,  
 AW084031, AL686866, AW151692, AL215740, BE281427, BE336892, BE905158, AA315858,  
 BG026639, AL720163, AA622853, AV706793, BF183311, BE908893, AL911854, AL493715,  
 BF687562, BE906127, AA186572, AL566835, BE910116, AL832383, AA314578, AL366934,  
 BE568026, AA972504, AA128640, AA525827, AA128773, AA085915, AL348494, BF965570,  
 AL365423, BE620091, AA315026, BF033646, AA603482, BF237816, AA100923, BE567357,  
 AA316175, BE877679, BE875309, AW474408, AL131330, AL750155, BF197849, AW514308,  
 BF031710, AW152644, AB05579, AA308360, BE139178, AA314770, AW273529, AA433942,  
 AA316292, BE277552, BF594096, AL189776, BF218001, AL828326, BF683513, BF742692,  
 AA622714, AA731831, AL635850, AW269457, N90290, BE744229, AL832624, BE264621,  
 AA496683, AA152205, AA315287, AW271995, AA157114, AL927800, AA186785, BE818645,  
 BE818699, BG150784, BE830831, BE838249, AW769523, BE838220, BE818680, BE830833,  
 AA625916, BF028970, AA508592, AA285319, BF340636, BE818664, AL859361, BE830840,  
 AA100249, AA187300, BF685686, AL081408, BE818690, AA873184, AW268506, AA102595,  
 BF208160, AA148426, AL079753, AL610890, BE907035, AA315876, AW861114, AW080650,  
 AA148425, AL200434, F26435, AA128843, BE838257, AX014347, AX014162, M14300,  
 M18981, J02763, X66449, M37761, AX038700, X52278, D10885, U31867, AL132717,  
 U76365, U04815, X05699, AB031064, AL42082, I89947, I48979, AF090900, AF090903,  
 AF130092, AF113019, AF116631, AK025084, AL110221, AF116691, AF116646, AL049314,  
 AF118070, AF111851, AR079032, AL157431, AF116688, A08916, AL162083, AB041801,  
 AF130104, AL050149, I89931, AF119875, AL122050, S68736, S78214, AL133640, I48978,  
 U42766, AF017152, AF090934, AF113677, AF119878, AF113699, AL133075, AF130082,  
 AL050277, AF113694, AL110196, AF130059, AF130105, AL050116, A08913, AL390167,  
 AL133557, AL133016, AB049758, AB048964, AL049452, AF111847, AK025339, AF106862,  
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HLQBT44	45	832454	1 - 735	15 - 749	<p>AL050146, AL133606, AX019229, AK026784, AK025772, AF314091, AL122093, E03348, AF116649, AL133093, AK025958, AF219137, AL080137, AF207829, AB051158, AL133560, AK027204, AL137557, AK000618, AL096744, AB047904, AK025092, AF242189, X82434, AF146568, AK027096, AL137283, E07361, AL133080, AF079765, AK026592, AL137459, AL359941, AL359618, AB048954, AF125948, AK000137, AL353940, X63574, AL110225, AL117394, AK000652, AF017437, AK026533, AL049300, E02349, AK026452, AF116682, AK026542, AK026927, AR087170, AF177401, AL050138, AK000445, AK024538, AK026583, AF119909, U91329, A65341, AF225424, E07108, AR011880, AK026504, AK026647, A08910, A77033, A77035, AL359615, AF061943, AK026086, AK000323, AK000718, AK026532, AK026534, AK027113, AK026959, AK025491, AL050024, AB052191, A08912, AL049382, AL133113, AL049464, AL117583, AF183393, AJ238278, AF260566, AF097996, AK025967, AL117585, AF067728, AX042059, AB052200, AF271350, I03321, AL117435, AF175983, AK025414, AL049430, A08909, AF130077, and AF118094.</p> <p>AA745837, AI554448, AI830118, AA928341, AA669073, AA630270, AW304776, AI418823, AA630339, AA614639, AA701987, AA507015, AA775672, AA577574, AA947337, AA425865, AA740316, AI925815, AA872373, AA481869, AI287247, AW170694, AA058866, AI11303, AI686727, AA482053, AA456568, AI984134, AA481821, AI251811, AA779177, AA496675, AA938571, AA894451, AI052452, N63977, AA524693, T57094, AI357992, BF594112, AA223604, AI288847, R92183, AI539613, AIW194037, AI689207, AA455766, AIW129939, AA410742, AI278744, AW805186, BG011966, AW071224, T68990, AA425994, T71879, T58711, AA775671, BG010690, AA235744, H93778, AI631122, AA668735, BF447423, AI933935, AA034382, AW801283, AW801602, AA627657, AA057664, AA51804, AI918451, T71878, T50658, AV692045, AA034383, T72829, C21135, AW515583, AI114853, AI245066, T72828, BF941121, N80768, BG010676, AI141304, AW393623, AA477973, AI803211, BG013596, AI494106, T25929, AW004686, AI500081, BF908767, AW842027, BF909560, BF868853, BF908693, BF909563, BF911325, BF868849, BF908765, BF801119, BF948926, AW243946, BE173882, AW878618, BE001388, BE079012, BF890845, BE073329, BF942940, BF990699, AA400639, AW843089, AW833203, BE166207, AI708714, BE676937, BE085445, AA810087, BF908691, AI039389, BE737951, BF908768, BF911435, BF909425, BF810304, BF909434, BF909438, BF733544, BF848896, AA577947, BF845946, AA559987, BE079182, BF896106, BE079011, AW898529, BF926033, BF874446, BF874408, BF987376, AA577987, AW884119, BF868852, BE146291, AA578162, BG002961, AW176716, BE001389, BF909558, BF908760, AA559135, BF875608, AA558407, BF943834, BF943838, AA504031, BG002880, AW797672, AW014901, BF875343, BF807164, BF934749, BE094775, BE072043, BF905359, AW898530, BF943835, BF878034, AW840660, BF990659, BG002963, BG002966, AW875187, BF762630, BE083383, AW878617, BE085444, BE828029, BE077159, BE075548, BG002874, BF990679, BG002969, BE079010, BF846180, BE094456.</p>
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HSLGG58	46	833088	1 - 1532	15 - 1546	<p>AL529745, AL521111, AL521110, AL530765, BG035239, BE741863, BE868745, BE783786, BG115436, BE743770, BF980935, BF032529, AA927626, BG170791, AI360106, BE792111, AI859705, BF515765, AL530323, AI696973, BE673724, BG059565, AI889305, AW194003, AI435237, AI015554, AI425058, AI653782, AI674150, AI292242, AW008174, AA443658, AI052216, AI689404, AW302350, AA682485, AI039198, AA069797, BG055892, BE740312, AA929022, AI559492, BF966723, AA507307, R89566, AA702532, BG055961, AI355925, AA436762, BF083167, BF083176, AW304693, BG152337, BG055803, AA447045, AV743176, R88883, AA069844, AW015302, N62841, AA340462, BF917627, H12262, AA700417, AI866372, BG222934, AA554984, BG036915, AW075240, AI364688, N77748, AA937871, AA507304, AV735802, AW263377, AW960326, BF038245, BF311363, AA770456, AA657774, AI904488, BF530542, AA327748, AW390282, R85655, AA609069, AW188781, BF885085, AL036980, BG165051, AW302992, AW673679, AW673635, AW268067, BE972180, BE964661, AV706744, BG105895, BG163618, AW946806, BG122481, BF343568, BG151247, AI336633, AI829327, BF764538, BF339594, AI349957, AW150511, BF816037, BG257535, BE886728, AI340627, AI433384, AI357316, AA830821, AW302965, AI620284, BE965121, BF884999, BE047952, AI500662, AI783504, AL036396, AA640779, BF344691,</p>



AI582871, AI680498, BF338002, AA572758, BF904180, AI623682, AI340519, AW074869,  
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 AW760102, AI349937, AI349645, AW105601, AI499512, AW834325, AI334884, AI307543,  
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 AI471361, AV757639, AV682849, BE964876, AI567385, AI269862, BF038134, BG112879,  
 AI345005, BG256090, AI079963, BF812960, AI272116, BG109270, BE047852, BF812938,  
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 AF113019, X82434, AR083266, AF113677, AF118094, I09360, AF067728, AX042059,  
 A08908, AF130054, X84990, AK000733, AF130099, AI359615, AI133568, AK000486,  
 AI050393, AI117435, AI110222, AI133565, AI389982, AK026532, AX026824, AX026823,

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HCHBQ33	47	840756	1 - 507	15 - 521		BF983424, BF211760, AW157053, BF684202, AW162417, AW162988, AW162603, BF026414, AW157332, BF683534, BF976126, BG032643, BG163354, AW156922, BF974967, BF975973, BF685471, BF969890, AI680129, BG249316, AW157397, BF203227, AI283030, BF97083, BG113896, BG025992, BF969919, BG027552, BF794777, BG029512, BE409260, BF965750, BF338609, BF972865, BF972470, BG106216, BF310371, AI625563, BE314799, AI499186, AW157806, BG142254, BF316903, BF343200, BG033251, AV752124, BF796091, BF315655, AU119393, AI887440, BE794493, AW276357, BF310677, BE786311, BG165212, BF969189, AA314895, BG024853, BE777933, AU126898, BF726955, BF342583, AI090099, AU126739, BG253776, AW029096, F24940, BG057843, AW118506, BG110794, AI928061, BE742652, BF727358, AW160561, BF974254, BE797276, BG059640, AW966494, BF337295, AA583793, AI475867, BF313677, BG142263, BE792984, BE019795, BG104756, BE900127, BE313100, BE732159, BE560126, BE897114, BE729777, BE275883, BE383590, BE409100, BE886687, AU149662, BE293298, BE559675, BE513645, BF037214, BE798509, BE798984, BE874485, BG032309, BF680826, D52392, BE250986, BE253387, BE313181, AA845270, BE314620, BF034696, BE793979, BE882443, BE797123, BF237943, BE736165, BE276565, AA308667, BE790613, BG056375, BE793578, BE793105, BE293961, BE278732, AW328693, BE254190, BE256721, BE909905, AW768638, BF125047, BE795518, BE255031, BE383224, BE789157, BG142170, BE907032, BE620944, BE878341, BE797140, BE276635, BG034095, BE878240, BE909385, AI913962, BE542091, AI735731, AA714332, AA316221, BE901680, BE540321, BF700921, AA524000, BF127837, AA947503, BE254299, AI126588, AW021371, BF026845, BE393303, BF038496, BE888490, AW327273, BE735597, BE561847, AI631371, BE906540, AV689462, BF211684, AW966489, AW162175, BE409686, AW966488, AI523924, AW163020, BE901983, AI766436, BE394377, BE260396, BE397339, AA912488, N54519, BE563380, AW163636, AA514900, AA088705, AI718867, BE048153, BG113893, AA506094, AA159790, BF125341, AW161303, AW769068, AA115703, AA988424, AI198534, AA112416, AA714522, AI581865, BE795020, AW163458, AA507481, AA501840, BE313575, AI469509, AI797529, AA192753, AA720655, BE563655, AI200353, BE887791, AA577162, BG142255, AW515839, AI863295, AA158148, AW161036, BE559641, AI270389, AA603073, AA989575, BF210694, AI564456, AI453217, AA846028, AI925625, BE621765, AI817585, AA515423, N76221, AV745134, AW083236, AA313883, AA187267, F24511, F27741, F26359, AA776904, AA316420, AA181237, AW615576, AA157076, AI287833, AA835523, AA493670, AA846115, AI922586, F31236, AX015385, E06004, E01533, AC007969,

HDTMK30	48	840862	1 - 518	15 - 532	AX014325, M32405, E06005, J02983, AC010180, E01555, AB005624, M19393, E06003, E01534, M33330, M33331, D11388, D10167, AC005330, AL080060, U09759, and AA074254, AI831962, BE676430, AW162549, AI017574, AI017570, AI935049, AW951729, AW070785, AW160944, AI433969, BE379169, AA316765, AI208340, BE908740, AA570273, AA308469, AA932397, AA971868, AW328383, AI302264, AA335512, AI375912, F20835, AW050941, N40545, N46592, AW438545, AI276310, N92934, R70374, AI590641, BE395213, AA873604, AI610571, AA648290, AI392906, AA629912, T94441, AI580872, AV706442, AW438488, T94528, AA906326, AA621581, AI261782, AI095210, AA910827, BE392525, BE833101, N56229, U09770, AP000358, AP000359, AC024247, U58630, and M13018.
HDPFX64	49	841088	1 - 1368	15 - 1382	BF690243, AI635310, AV705585, BF667716, AW516059, BG171153, BE379346, BG165946, BE262120, AW103919, AA586820, BE270450, AA580196, AW392940, BF689694, AA809239, AI023735, AI031575, AI038145, BF212877, AV653577, AW025039, W46346, BE727824, AW005149, N94381, AA931405, AI309211, AI341743, AW024649, AI093535, AI369772, W47346, W16578, W42813, AW945189, AV705723, BF132768, AA992145, AW675359, AA907868, AA070469, AW135787, AI300765, AA776545, AA490938, AW606545, AI025359, AV694879, W46347, BG036926, AA725448, AW750158, N66103, AI244482, AI765611, AI344462, AI680024, H05080, R42090, AV703075, AV719545, AA916199, AW386885, W42724, AA576647, AW025028, F00072, R00895, AV683358, AW581256, AV695314, AV684515, W57707, AW945190, AV691040, BE831134, AV693290, N79589, W57783, BE711900, AA362580, AA745683, AI033697, AW581255, R88810, BF132335, AW951545, AV685847, AA374786, T29875, BF903989, AV696538, D11601, AA491124, T16992, AI914576, AA305378, W31989, BF953874, BF953867, AW197238, R21561, BE140647, BF959687, BF959697, H05540, R42941, AW406968, W47450, J02888, AB050248, U07736, U07732, U07733, U07734, U07735, and U07731.
HODFG71	50	843485	1 - 2226	15 - 2240	AC019187, AF235098, AL049743, AL050335, AP001675, AC010348, AP000431, AC010283, AC003409, AC002554, and AC006992.
HCE3165	51	844534	1 - 288	15 - 302	BF380320, BF770784, BF770772, BF770765, BF770108, BG109313, BE884633, BG110701, BF770763, BF380303, BF848233, BF770117, AW753076, N94851, BE887181, AW384469, AW384552, BE771991, H21705, AI741955, AI963814, AW299769, AI917621, AI742118, R55420, H42724, AW205801, AI394684, AW360906, AW360994, AW578414, Z19511, U91329, AB014606, and AC004771.
HSAVH65	52	847355	1 - 758	15 - 772	AW080832, AI693734, BF793712, AI564525, BE869501, BF037343, AV719716, AW024144, AA523950, AW475057, BF827012, AI185475, AI197788, AI708671, AV660309, and AR062277.
HBXFT41	53	847647	1 - 989	15 - 1003	AA778868, AA679725, AA361583, BE727943, BE798065, AA626529, T19700, AA384998, AA374709, AI908896, AI908908, BE255062, AW245790, AA280060, AI114472, AV726479, AA085949, AA081907, BE269296, AV709611, BF723552, AV714707, AV706440, BE790718.

HBMCM38 HACBO42	54	847821	1 - 789	15 - 803	BE296483, BE745172, AV755336, BE274694, AU119430, BE744131, AU119428, AU119550, BE746420, BE620078, BF674845, BG260326, BF665845, BE254030, BE791005, BG119741, BF037583, BE744908, BF983949, BG251764, BF571453, BE898540, BE792102, BE729491, AI908937, AI908942, AI908943, AI908935, AI908888, BE747668, BE612555, BE620616, AI908938, AI908907, BE794070, AI908939, AU142280, AI908936, AI908930, BF308923, AI908944, BF208892, BE739876, BE746956, BE792493, AU118023, BF983503, BE388929, BE866950, BF310784, BE562649, BE792512, BE729603, BE798377, BF306882, BE542411, N88908, BE732108, AV704181, BE280824, BE799494, BE733715, BF683813, BE796036, BE394532, BE787810, T70160, BF980664, T79052, BE793454, BE733715, BF683813, BE796036, AV752006, BE304426, AV752905, BE259857, BE798780, BE743625, BE796415, BE279618, BE410674, BE276446, BG027214, BE784784, BE384913, BE264022, BE382420, BE383098, BG122701, BE733796, BG254133, L02426, AL356747, and AC008774.
	55	849064	1 - 1701	15 - 1715	AA665893, AL080243, AJ277546, AC005056, AC005179, AC004671, and AC016597.
HODBF86 HOABP90	56	859572	1 - 913	15 - 927	AW961071, BE703222, AI703476, W51947, AA775876, AW118126, AW419310, BF055108, AI298553, AI168160, AA976583, AA931093, AI343013, AA622237, AI056138, AA101674, T19393, BF222266, BE327125, F12518, T74004, AA825247, AI348336, BE173228, H08634, AA757564, T32177, H08635, BF061085, BF060724, BF446952, F10138, BF058335, BE502582, AW051846, AA426547, T87212, D81092, AI690133, D55877, and AB040799.
	57	859622	1 - 1239	15 - 1253	AV694711, and AL049744.
HE8UE42	58	862010	1 - 1640	15 - 1654	H84974, AI915939, BE396949, D51418, AA158104, D51544, AA828306, AC006387, A12297, M31158, J05692, and M12492.
	59	862481	1 - 476	15 - 490	AL515943, AL520278, AL531137, AL515942, AL520279, AI217895, AW960744, BF970078, BF001249, BF036496, BE395420, AI983150, BE277851, AW385698, BF979048, BF688139, AW374106, BE395502, AI660124, BF541042, BF210794, BF036241, BE567389, BE778929, BF103631, BF209890, AI339010, AW374124, AA166971, BE564629, BE971080, BE276625, BF509403, AA542906, AA689356, BF695952, AI285269, AI346870, BF541205, BF030313, BF243030, N27706, AW236815, BE567683, AI821074, AI821227, BE566782, AA166818, AL134542, BF570861, BF059406, AA836112, BF130491, BF695731, D20721, BF677074, AI221030, BG118818, BF106059, AA627350, AW027663, N35710, BF674060, BF029128, BE933681, BE933586, AI221246, AI285231, AW372396, T95430, AW372395, AI699709, AL134543, AA055338, AA449417, AW197834, BF030982, R83129, AI418208, AA375954, AA450383, AW958166, AA961046, N20259, AA336834, AA226636, AI911109, AA225691, N20865, AA825421, AI932769, AA938413, AW197872, C03633, AA370379, N29162, AI620095, AA055337, BE694074, AI932771, BF697063, BE468082, AA976076, AI821821, AA173926, AA173884, BE857593, AA569611, AI821883, AA772955, AW383971, BE898721, AI921241, AI224875, and AF271985.

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HSSDM07	60	863515	1 - 2584	15 - 2598		BE886761, AI520319, AW966039, BG252451, AL520320, AW375346, BE733511, BG114170, BF965742, BE559952, AW992850, AI829890, AI762105, BE788349, AI140601, AW365644, AI720778, BE740440, AW138255, AA772248, AI826338, BE502698, AA609490, BE927727, AI337251, AA971588, AW000925, AW301625, AI126519, AW673462, BF445347, BE327631, AW451288, BF111138, AI948721, R56414, AI684485, AI024528, BF111141, AA971582, AW675784, BE410672, AI363500, AW192954, AA565322, AI420978, AI263464, AW300687, BE348598, AI218550, AI369735, BE552303, R52184, W15529, AA022472, AA992460, N92817, BF091934, W31215, AI500339, AI906867, W39653, BE884207, AA255525, BE743589, BE674618, AV653705, BE618430, AA456635, AA772558, H29107, AW168493, BF026061, R56415, Z43129, BE387896, AA889111, R52092, BE811013, BE810908, BE810888, BE810898, BE810993, Z39214, BE810943, BE831903, AA322368, BE831912, BE810913, BE810939, BE810936, BF984499, T30757, AW901051, BE811016, AA364978, F02409, W04545, BE810887, BE811012, BE810873, BE810911, AI650748, BE810949, H29005, AW581134, AW581202, BE810871, AA490627, AA382734, AA256709, BE810969, AA023006, BE811003, W26238, BF529119, AW581211, AI783932, AW385906, F33591, R11750, BE963464, AA382733, W24938, C00533, BF092258, BF092249, AI122054, AI137324, and U67085.
HBCBW52	61	866444	1 - 1488	15 - 1502		AI732563, AI732596, AW469418, AI132859, AA053401, AI132947, AA053416, AI131083, AA131111, AA053057, AI439525, AV756663, AA525818, AW974363, AW020094, AW021399, AI521525, AI572680, AI049999, AW020150, AI348780, AI797998, BF814446,

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HOGAS18	62	867969	1 - 906	15 - 920	
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HHSDL18	63	869701	1 - 1374	15 - 1388		AA812573, AL518998, AW972473, W73306, AL522221, A1809692, AA513449, BE501387, A1148527, AW452872, AW245994, AA954445, H57889, AW183378, BE872438, AA813225, A1619978, BE794663, AW197888, BF088329, R24069, BF209308, W73041, BE502424, R24121, R26598, AW245458, A1929294, AA249846, AK024151, AL121754, AC008155, AC025593, AC004690, AC083870, AC005011, AL121897, and AL022238.
HTFMS34	64	870486	1 - 447	15 - 461		AW402328, AA354692, AA724612, AV758954, AV744331, AA158742, A1768253, AA353944, AW001224, A1857605, AU156990, A1830105, AA987516, AA588890, AW979250, AW979200, AW974813, AW969719, AW979221, AW975126, AW979156, AW970932, AW973116, AW975987, AW973183, AW975409, AW979220, AW979219, AW973808, AW970064, AW979284, AW974983, AW972802, AW970030, AW975427, AW971985, AW979197, AW975951, AW975012, AW971097, AU137027, AW974802, AW971070, AW970564, AW973136, AW970877, AW975928, AW974987, AW969682, AW973771, AW972762, AW973103, AW971963, AW979145, AW972699, AW975070, AW973217, AW973814, AW972417, AW979140, AW971068, AW976019, AW971949, AW976008, AW969751, AW975656, AW975004, AW979228, AW979194, AW969753, AW970875, AW970921, AW969735, AK024342, AL121928, AL050035, AL135904, AC004889, AL136137, AC009060, AC006480, AC005587, AC010605, AC005783, and AC005696.
HLDOG381	65	874506	1 - 1220	15 - 1234		AL521118, AW339982, A1827788, A1627750, AW575122, AL531441, BF967087, AL038656, A1888509, AW156877, A1094580, BE349949, A1963436, A1634293, A1891103, AW080820, AA910949, AW009916, AW338663, AL525766, AA514770, AL037705, A1924086, A1951034,



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HTXQF81	66	874608	1 - 1226	15 - 1240	<p>             BE735657, BE794634, AI346435, BE794294, BF035725, BE540828, BE736917, BF971130, BE874911, BE875498, BG163362, BE619340, BE543544, AV708235, AI813687, BG168124, BG029001, BF310923, AV703089, BE546820, AI523881, BF034887, AI246030, BE515214, BE789330, AI565163, BG178201, AA402794, BE784412, BG169860, BE878355, BE393961, BG025146, BE880077, BE874897, BE790171, BE786644, AA477593, BF968299, BE259495, BG180371, AA161137, BE394326, BF130503, AI394235, AI814324, AW328354, BF978913, BE909230, AA873099, BF093785, AA887676, AW752983, AA622341, BE048130, BE266971, AA161115, BE909193, AW386295, BE870857, AI280907, AA421577, AA552244, AA574027, AA453330, AI523581, AA826619, BF677836, BF030389, AA464842, BE620003, AA766218,           </p>

<p>BF939735, AA429353, N63397, AA464528, AA293567, BE393130, BE621337, BE621591, N98676, AI688036, AA897561, AI831467, AA424522, AI246562, BF978098, BF219064, AA160777, AI381579, AI991221, AI130549, AW001996, AI992166, AI857333, BF131906, AA424374, AA430526, AA777100, BE865692, AI148183, AA026078, AI332571, W92874, AA099121, AI057323, AI174284, AA421006, AI800148, AA293398, BE909077, AA856632, AA159370, AA453201, AI720789, AW001345, AA430611, AA428764, AA130586, N95686, AI819980, AA856698, AI831247, AA434191, BE621477, AA808470, AW406028, AW386371, BE880081, AA029925, F22574, AA454167, AA402802, AW272436, AI801083, AA430426, AA99657, AA832420, AI273391, AA857226, AI871010, AV763355, AW664325, H47425, AW518864, BE697609, AI598093, AA830492, AV760127, N73100, AA826723, AI904954, R96443, BE697607, AA086361, AA449966, BE964434, AW193589, AA505268, AA315443, AA053737, BF214130, AW304217, AA158842, AA947200, AA921703, AA115286, AV705607, AA758930, AI304791, H69012, AA429056, BE545935, AW302628, AW804779, AI091522, AI299197, AW328355, AI719387, AI086972, BF905782, AA661521, AI935183, AW572270, BE762364, AA053217, BE762365, AI337894, AW467641, AA588803, AI347946, BE698279, N66153, AI498213, BF732793, AW069810, H75395, AI587160, BF055282, AW387616, AI091629, AW387528, AA402306, AI457944, AI923632, AW387610, AI214251, W17167, AW951180, AI934695, AW387609, AW807818, AI089510, BE937323, AA723089, AA340466, AW807817, AV685409, AA687919, AA159162, AW387605, AW807890, AW387536, AI718119, AW387612, AW387532, AI261968, AA527012, AW387677, H47338, BF374464, AW387679, AA759077, BE937312, AW807895, BF571629, AW387539, AI261532, AW807739, BE841949, AA029924, AW387625, AA761238, AI830407, BE937330, AW387557, AW387547, BE842102, AW387583, AW807749, AX014336, L09604, AF196779, U93305, U16149, T95659, T99421, T99527, R96442, N92482, AA025486, AA043896, AA099122, AA100577, AA159465, AA513191, AA617664, AA285059, AA290976, AA477464, AA629238, AA853553, AA853552, AA852809, AA852810, D20308, AI197850, AI364502, AI368248, AI479890, and AI610373.</p>	67	874787	1 - 1061	15 - 1075	
<p>BE891902, AW271686, BE677446, AW025554, AI420969, AL521237, BE879239, AI202304, AA375089, BE245380, BE246652, BE547456, AA337142, BE879198, BF218778, X55740, D14541, J05214, L12059, and U21730.</p>	68	874891	1 - 653	15 - 667	

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HWLMV62	69	874930	1 - 595	15 - 609		<p>A1718277, A1806204, A1922705, AA134958, AW189584, BE940626, AW152541, BF436606, AW589567, AW779876, AA911194, AA099689, H26598, A1523349, A1783469, C06405, AW979187, AA856931, AW050657, AW580584, AA650629, AA075317, AW993789, A1535926, AF095844, AC007750, and I50896.</p>
H2MAC06	70	874931	1 - 946	15 - 960		<p>AA837575, A1750047, A1762213, AW778875, AA528093, BF594424, AW517424, AW612993, A1749649, AA514773, AA514789, AA421943, AA167440, A1708618, AA400973, AV740396, A1474120, AA514874, A1283967, AV738755, AW845024, AA587027, AV738776, AA167783, AV738660, AA642930, BF879539, AA878029, AW193324, AA857522, A1284506, AA164459, AA164458, AV741975, AW583341, AA838234, AA169874, AV739857, W38398, AW276087, AW264913, AA148194, AA308126, AA169614, A1669077, AA074902, AA148193, AW583781, BF893727, AA079651, BF802476, AW190644, A1306666, AV735674, AV735675, AA167439, AA857853, AA074845, A1199258, AA535642, A1826800, AA166792, AA074727, BF893886, AA421944, AA165663, AA075896, AW751341, BF875085, BF765758, AW265060, AW845005, AA076140, AV739168, BF879359, AW591737, BF748440, BF898643, A1626104, AA076188, A1541032, AA837890, N27757, AA102361, BF903121, AV741814, AA165649, AA100735, BF895363, BF892331, AA524360, A1833071, BF748145, AV741817, AA079557, AA593897, A1680515, AA573267, AA401137, A1675895, AA506601, BE696957, BF893703, AV743848, AW272215, BF354583, AA076566, BE004062, BE183618, AV740205, AA837854, BF334915, AA515574, N79823, BF894855, AA169569, AW364597, U47734, A173827, BF094310, AW664712, BE184103, BE171567, BF354577, BF805800, BG057623, AW150580, BF918052, BE811764, AA299459, BF893822, AA298668, A1810491, BF893729, BE140374, AA076565, BF894873, A1940001, AW062899, BE004010, BF801920, AW062852, AW062884, AW475086, AA366738, BE171661, BF893097, A1797418, AV737676, BE645920, AA298242, BE183717, A1939989, AW352267, BF893885, BE716617, BE859013, AA503624, BF893856, BF894876, AW062699, A1559933, A1749194, A1866124, AA172395, BF900257, A1697412, A1473481, AA502597, AA329732, BF896945, AW270590, AW778853, AW969360, BE711057, AW000856, AA471032, AA494293, A1695633.</p>

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HWLR06	71	875093	1 - 371	15 - 385		AW841682, BF766770, and D63997.
HODDO41	72	875352	1 - 583	15 - 597		H69413, H69440, AL120745, AA830102, BF898213, AW340795, AI457813, AC007546, AF064604, and AF155103.
HCHMQ74	73	875371	1 - 426	15 - 440		AA305616, AW861809, AW001611, AK023741, AC006057, and AK001527.
HT3A155	74	875682	1 - 1467	15 - 1481		AL523414, BE565623, AW955610, ALS23413, AI088910, AW469112, AW043896, AA005100, AA262517, AI470354, W78980, R89654, AV750391, AA261819, BF447445, AI079770, AA037517, BF834666, BF834676, BF834673, BF834657, BF834654, BF834667, AA328236, BF836570, AI584124, BF836573, BF836554, BF836568, BF834674, BF836564, BF836558, H19672, BF748075, BF751207, AI247711, AI217267, AV747710, AK025671, AK000219, AI121782, AB034617, and AL121754.
HMVBD68	75	876052	1 - 1266	15 - 1280		BE885169, AW970061, BF439457, AW575699, AW468388, BG116413, BG170032, AW083378, AA057509, AI679190, AV727466, AA574451, AA599718, AA054285, AA706513, AI707934, AW023524, BE142955, R66161, AA199863, AA862725, R84843, BF247952, R85715, AW973101, AW975244, AW979090, H86142, AW975971, AW627831, AL038837, H86028, AW979076, AL039074, AW975143, AW971975, AW975166, AL039564, AL039108, AW972154, AL039156, AW979228, AL039085, AW969930, AL039659, AW979176, AW975941, AL039625, AL039648, AL039678, AW973762, AL039150, AW975022, AW971953, AA059178, AL037051, AL036725, AW975626, AL039629, AW971954, H00069, AW974379, AL039109, AW973821, AW975981, AW972296, AL038531, AL039128, AW969748, AW970540, AW970969, AW979212, AW979147, AW976024, AW971968, AW969885, AW973789, AL040992, AL045337, AL037726, AW970587, AW975434, AW975650, AL042909, AL039423, AW979204, AW973772, AW975596, AW969694, AW971326, AA013394, AW971403, AW968147, AW972440, AL039410, AW970942, AW969798, AL134524, AL039538, AW973254, AW979037, AL044530, AL045353, AL036973, AW968338, AW973058, AW973812, AL044407, AW971404.

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HOCTA74	76	876487	1 - 671	15 - 685		<p>AI302800, BF109314, AW118693, AI808667, AI065036, AW080952, AA862461, AI201847, AI138543, AI015998, AA865819, AA470462, AA454546, AI221895, AA481881, AI039771, AA53254, AA482063, AI301489, AA551867, AI018725, AL121442, AI244932, T88913, AI914566, AI017732, AI016693, AI833052, AA608575, AA120921, AA120922, AU149626, AV720099, AW510983, N57711, BE302246, AW151576, AI572464, BE328214, AI471156, BF769730, AW473129, R85699, H60433, AA890675, AI262997, AA620388, AV719431, T47276, AA534566, AI625454, AA852619, AA889211, AW631306, AA707578, AI718799, T47275, AI124998, AA477467, H88225, AA680222, H66348, N63309, AA131070, AA131015, AW627418, AI474581, AI561334, BE936086, A V733805, BE936002, BF092360, AW861944, AW804686, AW604723, AW392670, BE695785, AW877209, Z99396, AW372827, BF868697, BE705905, AW858526, AW858525, BE705903, BE705906, BF868687, AW577135, AW384394, AW861889, AW858455, AW861954, BF868684, AW363220, AL119497, AL134528, AL119443, U46341, AW604726, AL119457, AL119319, AL119363, AL119341, AL119496, AL119324, BE705904, AL119355, AL119483, AL119484, AL119391, AL042965, AL119335, U46350, AL134920, AL119522, AL119396, U46351, U46349, AL119418, U46347, AL119444, U46346, AL037205, BF868696, AL134902, AW979212, AL042614, AW971745, AW975037, AL119439, AL042975, AW969885, AW979204, AL119399, AL042551, AW971387, AW973770, AL119401, U46345, AW973185, AL134518, AL134524, AL043029, AI142132, AL136526, S79219, X14608, M22631, M26121, AL122056, A81671, AR066494, AR060234, AJ279014, AX046357, AR054110, AB026436, AJ251859, AX030435, and AR069079.</p>
HIS05	77	876686	1 - 912	15 - 926		<p>AI392987, AW204721, AI380500, AI887979, AW166458, AI935193, AI739272, AI393078, AI337398, BE908889, AI262967, AA621187, AW780031, BF002042, AI002949, AA622165, AI078264, AA080959, AW370639, BF001449, BF982414, AA082985, BF001683, AI857378,</p>

HCRQM22	78	876696	1 - 433	15 - 447	AI812113, AW439180, BF818644, BF002657, AA449424, AA514476, AI262637, AI051534, AI374677, AA442087, AA425339, AA594240, AA410576, AA527340, AF287967, AJ270993, XS8431, X56459, J03782, U15407, and AF012098.
HLHTC92	79	877310	1 - 839	15 - 853	BE544606, BF529981, BE786721, BE251508, BE258319, AW794597, BE255394, BE890405, AL525853, BF757575, AW403014, AI904490, BE747560, BE535798, BE546101, BG028773, BG023780, AI831848, AI115313, AI761315, BE885000, BF808237, BE537206, BE535666, BE533661, BE389956, BE540274, L16783, U74613, U83113, AR030345, A79030, U74612, and AC005841.
H2CAA49	80	879484	1 - 2296	15 - 2310	R66025, R76969, AW043721, BF109415, AU122689, BF589412, AA553904, AW973590, BE182756, AI417134, RS8054, U77970, AR059959, U51625, U77969, and AR059960. AL518281, AI279876, AU123950, AL517520, BE738492, AU122239, AI539769, BE614356, AU127471, AU131719, BE782437, BF032266, AW954410, BF917448, BG114466, BG025422, BG258893, BF793578, BF695505, AA876127, BE535422, AI963800, AA206425, AI969470, AU123404, AL517519, BE884471, BF210187, BF978343, BG258084, BE044090, AU129257, BE079257, AU150519, BG035397, BF696016, AI951966, AW605343, AA459503, AW609270, AV726771, BF576773, BF910792, AW582085, AU152326, AA778294, AW582079, BE546929, BE565375, BG171787, BF939707, AA639198, AU153689, AW609318, BF375096, AA446426, BF094456, AU149119, AI334209, BF081392, BF978405, AU124260, AU119230, BF375101, AW582064, AW813451, AU150709, BF375184, AU159355, BF977470, AW813456, AU152457, AU151017, AU151416, AI150191, BF213914, AU158145, BF573572, AW609320, AI281280, AW149760, BF375091, BF819052, AA446118, AA459274, AA236997, AW609271, AI587101, BF212914, BF243356, AW609290, AW609276, AW662423, AA946837, AI922233, AI198839, AW813453, BE960873, AA568602, AA777025, BF380050, AW376909, BE910222, BF375112, AW582063, AI127770, AW582101, AI139373, AW813471, AW972374, AW609285, BF375104, AU152034, AI753243, AA789258, N95643, AI754062, AW582102, AU150043, AA236574, AI140786, AU145626, AW813461, C75603, AA075484, BE395097, AA251521, BF970745, BE090595, AA587266, BG121171, BE042577, AW609317, AU148699, AW439362, BE546818, BF375089, AL121103, AU154945, AA213367, AW609263, BF375081, AW609294, AA837311, AU123797, AW582067, BF932351, AU156384, AW609291, AI187231, AA227539, BF132102, AI344110, H67810, BF375080, AV723252, BE782617, AA075621, BE834271, AW609293, W95535, AI400951, T65536, AW609280, AA872668, AI192986, AW571539, AU134775, C17463, BE566077, AW970128, AI859211, AA470471, AW609423, BE871406, T17222, AW192135, AA506763, BF248125, AW139044, AI913866, AA192466, AA165156, AI826398, AA678954, AI271344, BE090601, AA113939, C05669, AA137249, H17790, F11801, BF825064, AA164768, C75565, R89384, T16445, T69722, N66040, C18698, H59003, AA503343, AU123857, AA339152, AI025443, D81644, AW582082, R78076, BF222253, H58956, BF818865, D60375, BE094097, F06655,

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HEFKQ94	81	880545	1 - 2418	15 - 2432	BF205433, BG025867, BF206942, BE867291, AI814360, AW665404, AW247024, AA971547, AW250225, BF701516, AA781889, AI932216, BE858661, AI144206, AI146546, AA436490, AI494424, AI951048, AI123552, BF185575, AA436445, N25312, BF092058, BE465537, BF931581, AI286226, AI005130, BE719412, BF336730, AF121170, BE931962, T20250, AA464700, AA463999, AW814610, R61444, AI911401, R11114, AA515534, AI680399, BF436747, T20249, BF821425, AI382750, AI580715, AW440012, AI569246, BE645712, AL043113, BF876211, BF846186, T91232, AI240523, BF247639, T86015, N71736, AA770594, AI350837, AI908616, BF820057, AI610364, BF435992, R61399, AI394618, N39715, AA956341, BE173985, AI224483, AA215637, AK025530, and AK025445.
HOFMO23	82	882466	1 - 730	15 - 744	AL525975, AL525520, BE263255, BE144775, BG163687, AA340612, AA375347, AA375265, BE880915, BE880848, AF089745, and AC083863.
HNTNP58	83	882787	1 - 2826	15 - 2840	AI829734, AI073471, AA884114, BF983127, AA507637, H59240, AI263494, AI288403, AL121978, Z93023, AC010677, AL035070, Z82190, AC005154, AC003101, AC004883, AP001697, AC004584, Z94721, AC025593, AC005030, AL121601, AP000010, AP001432, AL163303, AP000151, AC007842, AC006483, AC008050, AC007226, L78810, AC006203, AP001728, AL031281, AC016526, AC005011, AL121777, AC005696, AC002073, AC011894, AL049758, AC004967, AC007731, AC005500, AC008155, AC007685, AC005730, AC018637, AC004983, AL121585, AC002404, AL035455, AP002026, AC007050, AL163201, AC005520, and AA913363.
HOFNY28	84	888480	1 - 1605	15 - 1619	BG258222, BG117025, BG168645, BG253641, BG168646, BG167818, BG025417, BG164284, BE612896, BG252223, BE910738, BF345060, BE621811, BE621893, BF984267, BF798053, BG123011, BF984992, BG031014, BG117026, BG117030, BE621810, BG168644, BE614378, T29199, AA362689, AA362688, AA362690, BG253645, BE613101, AW968355, AW972092, AW968356, AW972093, AW968729, AW971740, AW972091, AI432644, AL045327, AI623302, AL134524, AI432653, AW969229, AI432654, AW081103, AI431328, AW972090, AI432677, BE672759, AL044652, AI431230, AW858522, AI431353, AI431312, AI432655, AI431310, AI432650, AR080280, A49045, I66487, A94048, A94061, AR035224, I66498, AR070554, AX002278, AR071324, I09252, I09251, I07209, I07249, AX042374, AX033488,



HB8MQ01	85	889128	1 - 2694	15 - 2708	<p>AX033489, I09270, AX033490, I09268, I09269, AR068508, AR068510, AR067734, AR068509, A63954, AX042377, AX033474, AX033427, AR089207, AR089206, A49701, AX035430, AX033486, AR089208, AX033487, AR089205, AR067731, A29109, A32111, I66495, AR068550, A23373, AR068551, AX042373, I66494, AR067732, AR085090, E01324, I08638, A94046, A94054, AX030436, I58322, I58323, I66497, I66496, I66486, A27169, A27170, A39929, A83151, I09267, AR083307, AR083321, AX030435, AR091571, Y17793, AR051524, AR051537, AR051528, AR051547, AR091393, AX042376, AX042375, A42964, AF064854, AF019249, AR071207, AL133074, AL133049, AL133053, AL133076, AL122101, and AL133068.</p> <p>AI866939, AA338997, AA332893, AL079734, BG056174, A1783911, A1114733, A1133552, A1912401, BE048032, AA515728, AV738383, AW963444, A1056177, AA228778, BF312862, A1620585, AA297666, AA535216, AA837035, BF928469, AV656851, BF891210, BF768846, AW798093, AA581247, AA659608, AA847031, A1439910, BF805088, AA452887, AA827771, AA410788, AA310183, BE350261, AW675551, AA714110, AU147162, A1744830, BG250286, H85792, AA631632, A1580250, BE968744, AA513551, A1119921, A1634187, AL038936, BF808097, AW515437, AA728937, AA610433, BF870792, AW338179, AA583394, AW069227, AW303142, AA654778, AA582073, AA527209, BG008041, AA804925, A1457389, AA176972, F11718, AV760723, AA621381, A1733856, AA489806, AV759115, AA464739, A118925, AC004112, AL161445, Z97196, AL035587, AF116689, AC003093, AC005098, AC004166, AC007371, AC008812, AC004867, AL122058, AC004882, Z97876, AL133320, AC007568, Z95703, AL096840, Z83844, AC004985, U72787, AC004850, AL355386, AL121881, Z85987, AC003007, AC004884, AD000685, AL023575, AC009060, AL445605, AC022436, AC009289, AC007999, AL008723, AC002369, AL033521, AC006578, AL079333, AC003695, AL022315, AC005081, AC002477, AL161731, Z83308, AC004475, AL031177, AC004585, AC083861, AL008627, AL117337, L35676, AC020908, U91323, AF084941, AL162293, Z70280, U82668, AC006271, AC005632, AC007787, AL035495, AC008685, AC005736, AL049548, AC005318, AC002091, AC007030, AC004638, AF039904, AC018663, AL109921, AF129756, AC002554, AL031117, AF030453, AC010271, Z82174, AL138733, U07562, AC073593, AC002468, AL162615, AC016025, AL136173, AL159168, AP002028, AL031683, AC005189, AC005190, AC007435, AL033517, AC006236, AC005050, AC009087, AP000505, AP000295, U95739, AL031727, AC005295, AL035406, AL022163, AC004089, AL335653, AL049758, AC007057, AJ295844, AL137802, AC009480, AC009086, AC005821, AC004520, AC002511, AL035697, AL445220, AL391595, AC007308, AP000044, AP000112, AC004841, AC004755, AP001630, AC008560, AL109613, AC006329, AC003043, AC005225, AC008736, AC011235, AL096800, AL354762, AC006241, AC005102, AC004491, AC011489, AL031447, AC006581, AC009318, AL133387, AL162272, AC010618, AL158040, AL034417, AC011475, AC005781, AL136527, AC005015, AL023377, AC026770, AC005180,</p>
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HE2RG21	86	891139	1 - 832	15 - 846	<p>AC006511, AF205588, Z97181, AC011464, AL138741, AC004815, AC087225, AC024085, AL117382, A1277546, AC005243, AC006057, AC011559, AC011490, AL049760, AF001550, AC007151, AC007216, AC006457, AC078899, AL133257, AL442167, AC005722, AL031680, AP000215, AL031657, AC002470, AC005921, AC003076, AC005011, AC073898, AC005184, AP001610, AL035361, AC008403, AP001748, AC004453, AL139120, AC006317, AL031733, AL139396, AP000353, AC005206, AC006210, Z93015, AP000297, Z82201, X60459, AC004232, AF181449, AL049856, AL022343, Z97989, AC005227, AC004974, AC016816, AC005071, AC007163, AL031311, AC006952, Z83838, AL049830, AP001666, AL024498, AC005667, AL031668, AL121897, AC027279, AC004975, and AL080314.</p> <p>BF969593, BF976282, BG109289, BF976463, AU125091, AU125476, BE792892, BE792650, AU125886, BE791092, AI133074, BE791337, BF237924, AL135290, BG177271, AV713476, BF797802, BE731259, BE795223, BF968456, BE790661, BE797404, BG171110, BE874660, BE795846, BE794082, BE902740, BF237469, BE562478, AV698481, BG164853, BE795417, BF342550, BE615419, BE798620, AI708767, BE795905, BE798940, BE793434, AU122903, AU123246, BE794023, BF971150, BE729229, BE792297, BE891943, BE796110, BE879535, BF308478, BE615080, BG254834, BE791517, BF689007, AV717421, BE797453, BE378673, BE797539, BG109767, BE790876, BE727304, AV713597, BE274348, BF974511, AV649335, BE879514, BG251837, BE733589, BE731394, BE796376, BE791222, BE907281, BG177300, BE790687, BF970844, BE790875, BE794823, BE795711, AU135821, BE745525, BE300363, BF027468, BG036177, BF308214, BE740779, BE797101, BE790755, BE906835, BE729432, BF314422, BE797254, BE300171, BF663788, BE790654, BE905832, BE791406, BE793973, BG113000, BF207077, BE784397, BG251054, BG025163, BF976215, BG168188, BF973995, BE794572, BE796652, BE796227, BE906382, BF026819, BE873279, BF686061, BF304948, BG165563, BE747673, BE728347, AI818928, BE379082, BE799031, BE879033, AV727362, BE274714, BG121915, BE386257, BE312750, BG107819, BE906182, BE386742, BF308232, BG254508, BE740218, BE792160, BE273381, BE569043, BF688618, BE274774, BE731375, BE889671, BE889607, BE791069, BF969938, BE727488, BF973670, BE744048, BE905712, BE561555, BE795983, BG032341, BF970016, BF980933, BG167418, BE275784, BF034308, BF983251, BE910496, BE560745, AI985637, BF684036, BE733167, BE793690, BE260585, AV688740, BE275014, BF970622, BG233952, BF796209, BE728591, BE276098, BE260683, BF312638, BF310331, BF795019, BE794960, BE729399, BF306538, BG109917, BF664113, BE746075, AW327358, BF026012, BF034507, BE794196, BE619444, BE378927, BG029118, BE890966, AW409953, BE793206, BE795584, BF025737, BE274916, BG178912, BF689288, BF315718, BF309544, BE872571, BE875649, BG178795, BE738312, BF680070, BF685685, BE275143, BE797323, BF206155, BG177739, BG116134, BE746340, BF792526, BE876133, BF970542, BE249941, BE907925, BE796038, BE276137, BF975039, BE867742, BF973384, AF074628, BE796201, BE897798, BE380156, BE560786, BF691285, BF690366, BE727901,</p>
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HBBH145	97	913831	1 - 1633	15 - 1647		BG169391, AW949561, A1310200, BF339286, A1302098, A1654459, BE729449, BE536951, AW968438, BE389695, BF665529, BE277374, AA625808, AA427852, AU154551, AA458825, AU151326, AA428109, A1120902, BF571546, BF222142, AA612971, AU130187, AU126787, A1347584, A1086482, N30370, AU157337, A1271968, W76546, A1688046, W74351, AA807857, BF678409, N95347, H18070, N79725, BF209686, A1347617, A1583445, H09608, AA804327, AA838452, H09609, AA164432, T09029, AW572063, BF337241, AA164431, W76465, BF810348, A1654258, F09074, AA192488, F11408, W72228, W25256, AV686355, AV685242, AW591780, AV698667, AV693138, AV694239, AV684641, AV697086, AA527521, AV693125, AV683176, AV695358, AV685230, AV695077, AA873514, AV684289, AV698337, AV698238, F08059, AW301970, AV691629, T09028, A1308013, A1254516, A1345333, AW301841, A1318573, AW274307, AW302778, A1343199, F04295, AV684299, AV603555, BE778359, AA132390, N62777, T16599, N47046, AW768945, AA459016, AA070813, BF799492, AA133507, AA887062, AA581050, N59845, BE181676, AA873503, AV711509, A1513597, AW301409, BG179993, A1513907, BG104782,

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HHPDV90	98	914163	1 - 1872	15 - 1886	<p>AF097996, AK000445, AF207829, AL122110, AL050138, AK025092, AF091084, AK026532, AL133560, AF242189, AK026528, AF177401, AL110225, AB048954, X82434, AF130110, AJ238278, AL133113, AK026592, AF079765, AF130066, AK026647, AL122098, AL353940, AF116682, AF130077, AR087170, AK000652, AL117435, AL117585, AK026534, AB051158, AL137550, AK026480, AK026583, AK000323, AK026504, E07108, A08912, U00763, AK026959, AL137538, AK026927, AF017437, AK024538, AF177336, AK025491, AL117583, AK025414, AL049382, AF225424, AL359615, AK027113, A08910, AF119894, A77033, A77035, AK000614, AL049464, AK026353, AK000391, AC002467, AL050024, X70685, A08909, AK027164, S61953, E02349, AB047904, AK025967, A03736, AF130087, AB052200, AF130100, AK025484, E05822, AK025391, AB048974, AF095901, AL133258, AF067728, AX042059, AF118094, AK026086, I33392, AL137271, AF260566, AK025632, AK026630, AF130099, AB049892, and AF119871.</p>
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HBGNY08	100	915214	1 - 416	15 - 430	<p>BE880116, A1052526, BF826007, A17168408, BF828616, BF828602, BF825755, BF337344, A1972366, BE221760, A17291494, A17296202, BE221730, A1659795, A1376244, BE502654, BF061519, A1628280, A1628245, A1250922, A17025770, A1142836, BE881510, BE933447, A1042083, A1621341, A1927233, A1824576, BF125935, A1628284, A1379711, BG114432, A17827289, A1788134, BF813177, A1740450, A17051088, A1389428, BE540578, A1637584, A1515173, A1731026, A1727136, A1633297, A17089006, A1709543, A1726200, A1609375, A1890887, BF812937, A17163834, A17051059, A1432570, A1819202, A172878, A1537677, BE880341, A1567582, A174646, BG029829, A17026882, BG251264, A1537643, A1738052, A1681719, A17410259, A1732107, BG178351, A1634682, A1445620, BG257656, A1581139, A1475371, A1421091, A17084056, A1813633, A1934011, A1513823, BE875243, BG029053, A17169001, A1345688, BF997967, BG122594, A17020397, A1732156, A1289791, A1679550, A1250627, A1801325, A1445256, A1088789, A1514267, A1681859, A1680453, A1583578, A1048323, A1698391, BF913616, A1048340, A1625701, A1682450, A152587, A1249877, A1366922, BE895765, A17081383, BE965330, A1401697, A1687728, A1540674, A1561356, A17162194, A1682366, A17157183, A1727206, A1587606, A1263584, A1936003, F26535, BE963310, BG113299, A1273142, A1536574, A1514455, A1433611, A1458588, A17025279, BG164117, A1826415, A1440238, BF343521, A1890412, A1983832, BF924856, A1471429, BG256592, BE880182, BG117653, BG163353, BE791620, BE536058, BG032036, BE061378, BE877769, A17080746, A17834282, A1799540, BF032910, BF911528, BF822127, A1476076, A1513947, BE874133, A17673679, A1310332, BG122101, BE889355, A1792461, A17074605, A1866820, A1042382, BE965455, A1983829, A1040241, A1800473, BE544111,</p>

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HODGH45	101	917394	1 - 929	15 - 943	<p>AFI11849, AF155221, AF017790, AK026624, AF180525, AL050138, AL389982, AF061573, AL133560, U75932, AC003032, AK026633, AB047248, AF065135, AF107847, U90884, AF119871, AF141289, AR070212, AB049900, AF177336, AB047953, AK026947, U86379, and AK026630.</p> <p>AW275585, AA489939, AA480561, BF887136, AL285651, BE161469, AW057760, AA648942, AW072963, AI086603, AW630599, BE677227, AL138119, AA280886, R22196, AI038990, AI935827, AI446424, AI754064, AW500532, AA731859, AW857529, AA360082, AI174703, BF792103, AW275640, AL952885, AA425283, AW080062, AW935456, BE967607, BF748493, AA584360, AA330435, AI869406, AV683406, BG231195, AW802912, AI300608, AI183727, BF812696, AA548811, AA489390, BG230829, AW342042, AW963785, AA086391, AW975247, H68812, BE171849, AA345665, BE154761, AA016062, AA370761, AI823395, R43468, AW850089, BF530611, AV695910, BE974200, BF698734, AI623505, AI271693, BF933309, AA551580, AA826079, AU151751, AA018175, AV704185, AW169183, AI028148, AI275989, BF770872, AL043285, AW964164, AA021421, AA640305, AI433262, AW750527, H86246, BF958025, BE154704, AL048969, BF346854, AI274462, BE744372, AL049553, X94359, AC005535, AB032485, AF229986, AB000931, AC004922, AC009362, AL109806, AL158815, AC004835, AC006132, AL035460, S45332, AC002985, AC005000, AC008102, Z92844, AC006166, AL136321, Z79488, AF217403, AF124730, U58047, X69907, AP00311, AL157372, AL008726, AC002477, AC004996, AC002039, AC006115, AP000049, AP00311, AP001718, AL121917, AL080245, AF003626, AC005049, Z98742, AC004000, AC003969, AL162458, AC018663, AC009487, AB023051, AC004643, AC005846, AC005179, AC004650, AJ003147, AC006576, AL136307, AC020934, AC000115, AC010205, AC004811, AC004913, AL160053, AC008403, AF243527, AL353807, AL009181, AL031311, AB040900, AC007249, AL035659, AC009484, AL163249, AL031390, AL133163, AF045555, X84066, AC006317, AC007021, AF060911, AC068499, AL079341, AC020904, AK023361, AP000512, AK026899, AK000252, AC005224, M94634, Z48051, AB004907, AC003944, AC006162, AL050328, AC012442, AL353777, AC006474, AC003688, AC005057, AL034420, AC004148, AP001068, AL445196, AC006137, AC007845, AC004477, AL121653, AL133545, AL139327, U91326, AC006011, AC005154, AL035404, AC011465, AC007879, AC009311, AC005519, AC006376, AC016025, AL137818, AF196779, AC005701, AC008038, AL109804, AC005228, AC004797, AC005409, AC005326, AC004965, AP000221, AL138836, AL353811, Z85995, AC022432, AC073323, U73648, Z99128, AL121890, AC006075, AL139383, AC006121, AC009123, AC006249, AL034380, AL137795, AC004659, Z97206, AL121751, AL031847, AC015550, AC002037, Z69890, Z68287, AC005335, AC004225, AC011491, AC008626, AL118520, AC005962, AC025472, AL133551, AC003101, AC009032, AC005779, AC006388, AC005003, AL008636, Z95116, AC004883, AC004585, AC006455, AL031427, AC007114, AC005098, AC005859, AC005037, AL031280, AC002110, AC000405, AC005546, AC002104, Z99291,</p>
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HWLKE58	102	917716	1 - 2567	15 - 2581	AL035420, and AC004907. AW957184, AL520230, AL135399, AL515934, BE618778, BF056891, AL520231, BF966712, AI633878, AW515316, BG032703, BG027920, BE042542, AW088411, BE883723, AL518067, BE218306, BE644805, BF087512, BG054496, AW207435, AW771521, AA902264, AW083012, AI818209, AW105148, AI669659, AW514659, AA126445, BF516057, BE465947, AU152940, AI927938, BF031562, AA310489, AW410334, AW182807, BE465917, BE763696, N21466, AA767314, AI420205, AA054496, AA938728, AI493810, AW771502, AI743602, AW675411, AI090291, AI283114, D81907, AI417561, AA427677, N66098, AA043792, AA573278, AA427532, AA431514, AI752320, AI819645, W19853, AA186486, BG003474, W00707, AI278309, BE349516, AA292620, AI366801, AA058340, AW512566, AA349431, AA973972, AI434568, AA349432, BE221654, BF104164, N62707, AI631297, AA766576, AA345941, AA588743, AW189042, AA724174, AW089555, BF432696, AA187281, AI638738, AI678159, N98699, AI440413, AI917203, C02522, AA829470, AA431188, AI332895, AA653570, C00128, BF998349, AI702887, T40865, AA970774, D79887, AI753861, AA766639, AI752319, D78858, AA809488, AA360504, AI962149, AI440138, AA456027, BF352331, T39804, D62361, AW149169, AW089455, T39783, BE618245, AA328062, AI220712, AI925346, H83314, AI668846, T40872, D78824, AI932606, R77568, BE782129, AI587187, N90043, D61745, N78427, AA300827, AA174177, AA330598, AA043666, R61473, BF089446, AW514435, AA126569, BF089445, BE536123, AA329088, AW796219, AW796258, AA455387, AA292619, AA096434, BF570490, AI624981, AI749472, BF837084, BF838288, AW275782, AW275777, AA704575, AW089135, BE940131, BE163882, BE163878, BF090691, AA348799, AK023143, T39879, and T39889.
HRADL40	103	919433	1 - 1047	15 - 1061	AL523954, AI057097, BE737274, AI740479, BF972939, BE792858, AI797405, BE250379, BE409256, AI418377, BE513939, BG032129, BE734267, BG167040, AI814639, AI817600, AI743696, AW268351, BE563371, AI889412, BF970634, AI623409, BE409777, BE268371, AW612995, BE250540, AW105242, BE464854, AW117856, AW272529, AI745423, BG059988, AI520744, BE407785, AI802882, AW951521, AU151633, AA988074, AA587623, AI864929, AI091730, AI766700, BE299112, BG165794, BE785114, AI382349, AI827080, AI056586, BE387632, AW083461, AI168189, AU129529, AW188543, AI962116, BE789666, AI880229, AI868331, AI338997, AA157276, AW002329, AA238412, AI364317, AW204445, AW197889, AA449331, BF826010, AI564865, AA775328, AW196304, R84307, AA988067, AW473206, AW249890, AA858029, AI480058, AA157315, BG036425, AA192986, BE940591, AA302199, BF109749, AI261917, H08847, T29752, AI742031, AV744823, AW197790, AW197780, AA364515, AA157347, BE205948, AI193424, AA405800, AW243173, AA135269, AA135188, AW250551, AA846661, AA192649, AI760066, AA601382, BF797658, AL036368, AA157251, Z25820, L24774, Z25823, Z25824, Z25821, AC007162, AC005212, Z25822, and U80735.

HOFMP73	104	919895	1 - 2026	15 - 2040
				AL534904, AL532610, AL516508, AL518341, AL537853, AL535425, AL536043, BE779892, BE742082, BF342824, BF689584, BE728130, BG036052, BE616486, BE908269, BE263125, BF423237, BE901909, BE744162, AW233927, BE744723, BF314677, BE740545, BE312905, AI909673, BE892672, BF038574, BE741530, BE737150, BF312905, BE616822, BF032371, AW966195, AV683435, BG119309, BF037944, BF314356, BE735054, BE747683, BE907163, BE735491, BF311641, BE260982, BE271649, BE743218, BE736799, BE261948, BE279316, BE313251, BE742646, BE272420, BE336884, BF690789, BE871599, BF689557, BG260726, BE612361, BE737259, BG113153, BE892856, BE281294, AV705514, BF315657, BE898510, BF689643, BF316842, BE261398, BG036139, BF725733, BE939964, BE313385, BE260757, BF525729, BE788732, BE622344, BE742327, BF724840, BE386718, AA037208, AW996326, BE741341, AW160971, BF351816, BF930665, BF976960, BG117567, AV653871, BF984362, BF317414, AW393167, BF691819, BE168310, BG035435, BG252355, BF571880, AA179450, BG119955, AA428750, BE256703, AV390219, BE179920, R91114, AV728232, AI907139, BF087769, AW804565, AI142132, AV647759, AI142136, BF755012, AV723986, AF062716, R52199, AV646258, BE785514, BE260283, AW838307, BE908603, BE174669, BG118190, AV696733, AA082368, BE174445, AA372215, AA337535, AW368737, AV725049, AV658276, AW948691, AW368840, AW948696, BF037070, AV733360, BG121951, BE698728, AA788902, AA559314, BE259919, AA385829, BF341835, BG118704, AA337949, AA360462, AW948698, BF930434, BF923596, AA376841, BE172795, AV692780, AA362386, BE173127, BF913320, AW068069, BF692127, AW068800, BF803377, T71996, BE173259, AA305777, AW948694, AV708415, W32145, AV709872, BE167028, AW385218, BF081248, AA337859, BF351796, BF844572, AW947386, AA339979, AA379722, AA853192, BF830253, BF907280, BE172880, AA336721, BF032429, BE839327, BE772910, BE772907, BE839310, BE841076, AA337414, AA361134, BE772895, BE839302, BE772893, BE772902, AW450427, BE841048, BE839324, BE772901, AA307018, AA357376, AA360603, BF830142, AV734812, BE170712, BF761106, BE839315, AV648046, BF229791, L16510, M14221, AF285442, AX013195, M13230, Y18460, L22569, L04859, A010277, AF044323, AF078844, Z97214, AR050959, X75295, AL137711, AF274348, AF274347, AB052191, AF118094, S82852, AL353940, AB048913, AL133084, AB047947, S83440, X93328, AF032666, U92992, AR068466, AF171061, AF013214, X66871, AF159148, AL050172, AB050431, AK027116, X62580, E12580, I09499, AB051158, AL389935, AL121952, X98066, AK026885, AL137459, AF126488, AK024747, AF090901, AL136984, AK026642, AF116609, S73498, AL080148, AK025350, I17544, AK000250, AR038854, U62807, A08912, AL355719, U95114, X06146, A08911, AL133665, U89906, AK024594, AB048919, AK025632, AK025658, AK026570, AF139986, AL110222, E02221, AL096728, AL161802, AF130104, AF116691, AF119336, X66862, AF098484, AF218006, AL389947, S76508, U72621, AR064250, U96074, AL137461, AF007142, E12806, E01812, AF113222, AF195092, U42766, J05277, X72889, AB020392,

						X61399, A08913, M92439, AF094480, AL137533, AF167995, X00474, AF130055, AF204760, AK025484, AF061981, A08910, A049452, AK000489, AF116631, AL080118, A08909, AF094850, AF067790, AL122110, U83172, AF119883, AL359941, AK026633, AL162083, AF119894, AK027096, AF119899, AL117587, AB041801, AK025906, X80340, AK025092, AL050116, AK025113, AB047883, I32738, AF287051, AF208026, AF002672, AL162079, AF130110, U80919, AK025465, AF116573, AF102578, AJ005690, AL110218, AP000081, AK026556, AL080060, A08908, U96683, X96757, AL096727, AR083264, X66975, E02349, AC004354, AF130342, AL355701, A18777, S79832, AF145233, AF038847, AR070212, Z82022, M85164, and AK000247.
HOFMS02	105	920253	1 - 374	15 - 388		AA076264, AA085092, AA080989, AA063334, AA075694, AA084890, AA069099, AA084855, AA084814, AA078759, AA083056, AA083017, AA074846, AA070575, AA069969, AA082755, AA075614, AA075818, AA100017, AA070377, AA070995, AA065075, AA113255, AA070965, AA070321, AA075784, AA075592, AA085065, AA134716, AF093677, L07095, V00711, AB042523, AB042524, AB042809, AB042432, AB049357, L07096, and I62858.
HUVHD12	106	921707	1 - 2708	15 - 2722		BE729461, BF795181, BG108619, BF309103, BE733125, BF027564, BF309068, BE296065, BE281099, BE298511, AW410246, AW409779, BF526623, BF308487, BE298767, AW271999, BE299141, BE298938, AW070334, BF309208, AI810901, BE221973, AI693910, AA029642, AI435095, BE388330, AI765687, AW510727, AW470549, AI862580, AI394548, AI972685, BF589734, N98473, BE223075, BF475345, BF434507, BG059921, AI809960, AI762024, BE779192, AW073339, BF221682, BE856254, BE044436, AW410326, AI763319, AA029710, BE302520, BE465271, AI701495, AI017268, AI799592, AI401766, AI392786, BF308873, BE270326, AW131646, BE390072, AW593466, AI371702, AI638231, AI655706, BF939266, AI369175, AW409726, AI204980, BF308645, BE859057, BF593536, BE205950, AW663740, AI360022, AI278134, AA632035, AA039563, BF056862, AI570638, AI204500, AI362875, BE294172, AI340928, AW294855, AI424041, BF196199, AW237311, AI459219, AI766885, AW016416, AI203132, AA504431, BE551227, AA447758, BF111136, AI910708, N57532, AI767238, AI421493, BG231638, BF740107, W56299, AA279292, W55871, AA845967, AI340930, W76092, AI870442, N49400, N66084, AI051272, R49397, AA834166, N92406, W61301, AA977863, AA279270, AA453689, N49489, BE279899, AA039564, N51462, BG054588, R73170, AA911075, BF475817, BF851978, AA769921, AI378019, BF224168, AI928755, AA379570, AW269014, AW592153, AI886020, BE044396, BF852201, T47196, BF852157, T90531, BE081267, AA300798, AA323087, H69590, AI653392, W72845, AA323218, BF054948, BF111142, T83066, W24631, BF924523, BG149504, AI886244, W65365, BE075405, W24197, AI354659, AI419610, T81327, BF917322, N79047, AI880342, AW449928, BE218696, N46989, AI419132, BE219972, BF304931, AA504197, BE299549, AI370420, AI651959, R02389, Z42404, Z38611, AA676675, N53602, AI350904, BF205597,

HMVDQ41	107	922191	1 - 1980	15 - 1994	<p> TI1535, BE28335, AL445192, AB037836, and AX018071.  BE908874, AA403039, AA772356, AA890039, AA706235, A796685, AW958911, W56103, AA639769, AA707393, AI971384, AI400642, BE349391, AI419056, AA931654, AI074056, AA725449, AW752569, AI278287, AI051080, AA934509, AI056195, AI827412, AA291642, AA252870, AI278795, AI077777, AI344740, AA855074, AA287208, N99681, AA625359, AA707796, AI085793, AA910676, AI375275, AI277706, AA968653, AA482049, AI040845, AA004744, W56146, AA128102, AI038120, AA926651, AI808622, W42934, AI241340, AI419232, AA938251, AA481865, BF939403, N62191, AI350660, AA846421, BE174045, AA928335, AA987944, AA805065, AA325681, AI188852, AI266586, AA401330, AI022609, W37593, AI459456, AA514539, AA480369, AA938533, AA694474, AA694542, AA642598, AI085080, R55037, BF885412, AI719065, AI022981, R36222, AI868718, N94983, AW204000, H62802, AA284488, AA125812, H62716, H41118, AA639530, T49454, T49455, BF772108, AV698354, AW847806, H42251, T36167, AI350924, AA782685, AA252893, AI051453, R10302, AA214099, W86591, N76488, H42250, N59273, BE165692, AA781103, BF985470, AI191721, AA680383, H22403, R10303, N71946, W19456, BE142862, AA977361, H22370, W42869, BF935739, R55145, W37488, BF942272, BF942336, AI309601, R10631, R10632, N76744, AA213991, BF929098, T24749, AA725118, AW753876, R55007, AA090452, BE146939, BF772122, AI247921, AW028468, BF939755, AI084241, BE348377, BF991587, H58310, AW058434, BF947830, BF991716, BF947297, BF991604, BF943751, BF947310, AW839223, BE075398, BF764247, BF846830, AI137496, AF303378, AF300796, I76236, I76219, AC023790, AI117345, AC005373, AC010326, AC006584, AF111168, AC010205, V00589, X57170, AC007182, AC007221, AB019437, X06789, AI133472, J00063, AF193582, AF193580, AF193585, AC007954, AF193581, AF193586, AF193587, X71804, AF193590, AC006449, X83747, X83748, AF193588, AF193591, X71799, X71800, X71797, X71802, AC026704, M10817, AC005409, X83746, X12811, AI109797, AI158824, AF193592, X12622, X16851, X58365, AC004787, AC007131, AB015590, X04309, AI162718, AF099810, AC005284, AI138976, V00647, L49397, X58368, M35175, X04308, K01374, X58367, M74438, X83749, X63147, J01861, M13919, M13920, AI135978, K01537, X63146, X63145, V01426, J01009, AC007955, AJ245808, AJ242468, AL050331, X56635, X56631, X63148, AJ237911, V00648, S73106, X56637, M13375, X56632, AF284748, AB001499, AP000350, AF284747, X56636, K03511, K03510, AB001495, AF250529, AB001492, AB001493, AB001494, AB001498, AB001503, M13921, X05867, AF250528, AB001501, M18680, AL031658, AC006120, and S73107. </p>
HODG103	108	922879	1 - 216	15 - 230	
HODHD14	109	922955	1 - 734	15 - 748	<p> AI670994, AA457520, AW008614, AA284465, AU147140, AA834633, W91945, BE879668, BE382371, AA179361, BF841870, AI221804, AL034369, AC008468, AC007394, AC006079, AF003328, AC006231, U96409, AL049834, AL132671, AL121875, AL049594, AC005274, </p>

HODDC03 HVCAG04	110	925296	1 - 528	15 - 542	AP001538, AL137787, AF022141, AL023693, AP001674, AC002478, AL008627, AL118508, AL161892, Z93015, AL445490, AL157359, AP001724, AJ229041, AL033397, AC005857, AC005226, AC004460, AL445143, AC010389, AF245226, AC011294, AP001693, AC068919, AC020549, AF109076, AC004237, and AC010223. AC009329, and AC020581.
	111	925735	1 - 1594	15 - 1608	
HCRCE02	112	925837	1 - 1551	15 - 1565	AI936826, BE271770, BE385990, AW149665, AW590950, AI990500, BF126050, BF432379, BE392412, BF439382, BE395797, BF125134, AI884686, BE395581, AI742092, BE58216, AW150789, BF939693, BF594242, AI859538, BE378674, BE350014, AI018769, AW338938, BF726459, AI336858, AW075598, AW148557, AI423162, AI363261, AI150931, AI459805, BE395206, AI765236, AW954549, AI391683, AW191974, AI202043, AA173383, AA626797, AW087372, AW075549, R11723, AI937602, AA084249, AA419229, AI566797, AA419214, AA613995, H17965, AV725028, AI499630, AI27281, AA084248, BF054837, BF054680, AA075710, AA075743, AI263480, BG057775, AW771806, AI869176, AA834860, AW128849, AA780222, AA970361, AA574173, R17696, BF935708, AA775244, AA827444, AI969011, AA706146, AA665640, BF726644, AA173739, AI480207, AA496806, H06707, BF508715, AA082074, R14544, AW768971, H17189, AA349894, R43737, AV717094, R41205, AV727120, BF219218, R20352, AA776783, AI767459, AV747689, AI141302, BE386060, AI421975, H06756, AI582720, AI054234, AA582576, BE041936, AI140655, BE746601, BE736301, BF345141, AI299246, BE899287, AI138793, AW014802, BF477409, BF432690, BF125664, AA349893, AI817194, BE827461, AA102212, AA620332, BE586555, BF347279, AA960903, AA994321, AI266676, and AF034633. AW082702, AW182938, N76185, AI760396, AW038256, BF939004, AW890838, BF438133, AI800552, AA996239, AA774721, N39067, AA984011, AI094521, AA456754, AA573698, N95736, N63430, N64772, AA836623, AW890829, T56007, H28396, N48422, H28371, and Z82254.
	113	926067	1 - 2542	15 - 2556	
HHERA91					AI124593, BF305985, BE793458, AW411525, BE746024, AW411524, BE745264, BF792014, AW845240, BE378421, BE272083, BG036629, BE273980, AV684577, BF340012, BE873767, BF033645, BF984116, BF980548, BF306936, BE780737, BF436316, BF968051, BE392778, AU148420, BE777873, BF970020, BG254594, AV707425, BE898179, BF969458, AA442297, BF307860, BE176556, AI921390, AW083114, AI432643, BE857417, BE908252, AA434090, AW135378, AI907299, AW129697, AI907302, AI559576, BF306438, AW088122, AA577937, BF855709, BG114638, BG005738, AA437232, BF196470, BE850283, BE905441, BF803784, AA558517, AI952737, AW848212, BF810009, BE076517, BF804862, AW020932, AA434362, AA357638, BE272724, BF741455, BF933621, AI834236, AI653899, BF837849, BF964440, AA479851, BG011157, H53665, AI674310, BF741442, BF799562, AA496510, AA853878, BF033991, BG170573, AW292697, BE396149, AA428249, AA477491, AW973725, BF807612, H53626, BF908611, C01932, N41205, AA430740, BG222431, BF765880,



HAGDL82	114	928396	1 - 1864	15 - 1878
				<p>           AJ27437, AK022597, and AK000530.            BF038718, AI052255, AI627552, BF433190, AA890036, AW467145, BF513360, AA679966,            BE567783, AA932501, AI655727, N95443, AW613958, HI5351, AI308231, AA678372,            BE567435, AA861702, AW661963, AW661972, AA844485, AA768243, W69720, W69848,            AI025683, N42789, N69505, AI271962, AI953406, AA398963, W24323, AI004883,            AA564406, N31480, AW296874, N76230, HI1150, AA005413, AA398826, AI770002,            AI061173, AI147037, R39153, AW859636, AW859227, Z45949, N54527, AI672289,            BF671244, HI1062, AA661956, AW970819, R14035, Z41567, AA005414, BF095740,            BF095666, BE774830, R01400, AA811935, HI5726, AI080087, R01399, AI611688,            AA491284, AA582554, AA121777, AI079910, AI569086, AI888441, AI298710, AA468923,            AA593471, AA568426, AI733856, AI285696, AI040051, AA332989, AI471691, BF842195,            BF337291, AA346586, AW327624, AI160117, AA678436, AA302970, AV763538, AI917132,            AA191418, TI5897, AI035455, AI049985, AC016831, AC004543, AF017104, AI139182,            AF200465, AP000963, AC009294, AF205588, AC074331, AC007386, AI136305, AI122001,            AI035451, AC004965, AI229041, AI109919, AI133238, AP001732, AC007405, AI049696,            AP001696, AC020898, AI078462, AP001601, AI117337, AB042031, AI121897, U89335,            AI353739, AP000472, AC008534, AP002529, AC006195, AC007390, AC007376, Z97985,            AC018897, AC006479, AC009493, AP001683, AC007364, AI117187, AP001698, AC005772,            AF015720, AI021939, AI356503, AC020655, AI133355, AI078593, AC064878, AI139395,            AP002533, AC007221, AC004804, AI049643, AC007345, AC009223, AI135839, AC002525,            AC007388, Z84470, AC009179, AI136084, AI121578, AC005899, AC004385, AC005911,            AP001712, AC006197, AI022310, AP001706, AP000518, AI049712, AF107258, AC005066,            AC004547, AC005701, AI080317, AI031733, AI163268, AI354872, AI391374, AP001697,            AI359704, AI137067, AC007842, AP001669, AI136139, AI160033, AF003529, AI031985,            AC007157, Z97181, AC006144, AC069298, AC005326, AP001328, AC007077, AC004655,            AI391986, AP001700, AI021528, AC008896, Z70272, AI354720, AC007316, AC007102,            AI161804, AI050335, AC007653, AC007528, AP001677, AI133284, AI049588, AI117333,            AC009468, AC024162, AI122057, AF188025, AI049759, AC009406, AC083863, AB020868,            AI445188, AI136300, AC009470, AC004817, AC011248, AI109828, AC007907, AC004865,            AC025765, AI160191, AC069026, AC008842, AI135744, AC004867, AI022717, AI121757,            AI138958, AI121583, AI445604, AC010596, AI121919, AC011890, AF027390, AC010363,            AC006019, AP000466, AF265340, AC005324, AC007790, AE000660, AC010165, AC007597,            AC007563, AI035458, AI022719, AI022165, AC005822, AC002288, AI132718, AP002898,            AC011452, AI122002, AI137143, AC008074, AC002086, AC026197, AC002472, AC022013,            AI031768, AC019171, AI049709, AI050310, AC002422, AC005071, AI132773, AI109801,            AP001672, AC007050, AP000355, AI137851, AC004047, AP001694, AI389983, AI157413,            AC008071, AI117338, AC009506, AC027689, AC000003, AI121593, AC004103, AI050307,         </p>

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HWBD534	115	930484	1 - 3044	15 - 3058		AU130359, AU118385, AU130640, AU127870, AU127056, AU128471, AU129803, BE886921, AW188126, BE889704, AU128544, AU114658, AA779297, A1936493, AW188141, AU045312, A1553970, BF002279, BF671616, BF061427, AU139399, AA406422, AW151544, AU150128, AA194584, AW131406, AU047872, AU087327, AU04128, AA887912, BE708344, AU1801388, AA010422, AU194501, AU500467, R66419, BE150925, AU117686, H83852, AA973155, H08158, AU10805, H83831, R01915, T75488, AA058677, AA471337, Z41823, AA774580, AA010394, BE041711, T75527, R52813, AU000146, AA214136, AW014661, AU1910431, AU1798347, R57531, F03794, AA213958, R01963, BE838102, BE707063, BE706963, T86495, R52845, BF110371, AK027051, and D87466.
H6ESA39	116	933568	1 - 1250	15 - 1264		BF033707, BG116039, AU820052, AU399661, BF940969, AW188045, T26603, A1674067, AU091805, AA477591, AA480288, AU18039, AU300906, AW978872, N71816, A1936066, AU245622, AW194052, AA291409, AA639600, AA778322, BG057053, AU334794, BF732599, AU378435, AU201307, AA918657, AW102947, H01857, AA861142, AU352598, AA302632, AA992931, AU360566, AA931399, AA847869, AW967258, AW081519, AU869896, H01858, AU698735, AA403312, AA936581, AA972408, AU025530, AA143416, AA781469, AW341711, AW003441, R46670, AA613328, AA757047, Z92544, and AU391671.
HPCOR06	117	933678	1 - 457	15 - 471		AA455081, AU263465, BF912280, BF912197, BF912198, AC004980, AU109626, AC006031, AC008774, Z83819, AL445590, AE000659, AC026188, AF003529, AU133328, AC023478, and AC034195.
HTFNO06	118	933989	1 - 909	15 - 923		BF684524, BF340318, BG107767, BF681126, AA497123, BE250611, BF673679, AU253369, BE778532, BE250414, AA497045, AU193675, AU125248, AW301040, AA001314, AA063616, BF109644, BF516348, AA039474, AA039475, N91255, AW630056, AW613821, AU991147, AW970517, AU306650, AU128891, AW627576, AW515210, N92376, BF446911, AA781865, AW007579, AA467823, AU630816, AA938705, AA706012, AA467879, AU695530, AA040221, AA831695, AA541653, W73974, AA872459, W72343, AW103804, BE076374, BF331452, AW605476, AA001684, N26202, D31084, AU245152, W19909, BE932204, AU583969, AU672730, AU707545, AA551882, AA578108, AU088337, AA036698, AU365605, BE841269, AA578193, BF931099, AW605475, BG153138, W24618, C02159, W04846, AW975002, AW979204, AU975037, AU976024, AU975942, AU975965, AU971975, AW972845, AU979127, AU972292, AU975032, AU979238, AU975031, AU975628, AU971403, AU976023, AU971404, AU975105, AU969680, AU979208, AU974801, AU975954, AU971968, AU969839, AU972721, AU969885, AU975952, AU974998, AU969791, AU975930, AU974786, AU970942, AU971732, AU975876, AU969673, AU979098, AU973219, AU971375, AU973254, AU979090, AU979106, AU979176.

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HODFY08	119	935520	1 - 456	15 - 470		

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HRACK27	120	935717	1 - 2723	15 - 2737		AI797673, BF222825, AI638276, BE784408, AV7112945, BF185949, BE707564, AI983071, AW300244, BF949779, BE502956, BF674065, AA999982, BF572901, AI379012, AW237408, BF512700, BE211745, AI439170, AI634105, AA256584, AI672401, AA904964, AI742625, AI925484, AI7129743, N45400, AA570413, R17726, R20014, BF593101, H50174, AI287883, AI478134, AW183869, AA629865, AI984609, AI760492, AA126804, AI979187, AA256541, AA400198, AI287866, BE044058, BF954310, AA353809, AL040798, N32088, R14618, AW087798, AA687346, AI949879, AI262174, AI927259, AI912920, AA262622, BE711761, BF590031, AA935907, AI927253, H50126, BF886641, R44828, BF886649, BF957504, AI370543, AW381072, AA400357, AI193434, AI470872, AI473255, AA856870, AB037795, AI133045, AB050258, and DI6989.
HRACW30	121	940639	1 - 1092	15 - 1106		BF976230, BF976543, BF663472, BF976289, AV695127, BF976253, BF663527, BF976434, BF664290, BF975568, BF975451, BF976042, AV703739, BF663671, BF662874, BF975121, AW734840, BF129120, AW575927, BF128086, AW406321, BF664479, BF673606, AW604752, AV651251, AV712126, BF106245, AV683248, AV702504, BF976443, AV682465, AV711839, BF976623, AV696029, AW406562, AV696611, BF663521, AV700457, AV700525, AV696032, AV646747, BF663670, BF663052, AV575963, AV688963, AW950221, BF975235, AW575415, AW575346, BF106080, AV646708, AW575364, AV733319, BF97505, AV733390, BF663197, BF681319, BF663098, BF664317, AW404714, AV686096, AV683109, AA522693, BF526853, AW864112, AW961249, AV651284, BF974584, BF087519, BF663982, BF664384, AW604755, BF663385, AV694333, AW951137, BF340407, BF975821, AI354387, AW406081, BF976602, AW383594, AW379839, AI569037, AW369231, AW406564, BF795850, AW574924, AI921456, BF976146, BF106352, BF976244, AV653568, AV705457, BF976259, BF375248, AW605034, AW380142, AW964425, AV734918, AW576109, BF878285, BE149494, AI4322569, AV720327, BF663826, AI694098, BE711071, AI208910, BF881717, AV688287, AI355534, BG107363, BF976425, AW856063, AI244719, BF878299, AV687177, AW582319, BF337917, BF976649, AV698744, BF869617, AW405980, BF883209, BF829419, AW404417, AI990966, BF128841, BF106055, AW383598, BF795261, BF810843, AI250870, AW405817, AV681466, BF870064, AI749799, BF663663, BF103950, BF812159, BE932420, AW383602, BE939490, AI347602, AW383450, BF128587, BF878293, BF976618, AW383597, BF883316, T58152, T89330, BF878296, AW405753, AW793702, AV692938, AV734331, BF829413, AW383454, AV734312, AV690568, AW383452, BF842477, BF664084, BE064617, AW794639, AV682898, AW383536, AV690475, AW383539, AW383625, AW864088, AW382758, AW391263, AW383549, BF829086, BF828085, AW383591, AI933674, AW406495, BF337912,

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HOVAY63	124	944031	1 - 729	15 - 743	R32912, R32812, and AL022725.
HDPFY41	125	946502	1 - 2106	15 - 2120	AL042656, BF982270, BF678765, BF095732, AW971745, AV681512, AV681529, AV681509, AV681500, AV681492, AV645393, AV645392, AV645390, AV645385, AV681526,

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HB/HO83	127	948708	1 - 963	15 - 977		AW139587, AW206289, BF439266, A1418005, A1196170, AV721569, A1493150, A1539840, AA827263, BF525553, AA342835, AV723060, AL135079, AA9992466, R84740, AA018860, AA89455, A1032948, A1086195, H05897, A136660, A1052553, AA335442, R96455, AW341838, R96454, A1204085, AW277153, A1004047, BG253018, A1916309, BE219764, BF439900, A1123630, AW339238, AA521073, A1144557, AA935749, AW207577, A1269030, AW513165, AW611961, A1554132, BF335547, AW604457, AA777781, AA946701, AW604440, A1184875, AW578528, BF945235, AW205588, AV720037, AW373059, AW373058, BE706100, BG026120, AC007276, AC009276, AC078847, AC020910, AC008760, AC022143, AC008747, AL117337, AF205588, AL050308, Z98950, AF030453, AC005088, AL110162, AC005919, AC003682, AC009196, AC011449, AC007793, AP001748, AP001630, AL356234, AC022150, AC005229, AL031432, AK022963, AL031846, AC006987, AL031602, AC008969, and AA583226.
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HFJA96	129	949001	1 - 1041	15 - 1055
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HMSAC18	131	950257	1 - 1201	15 - 1215	AU130929, AI814257, BF666825, BF110784, AI935638, AI420022, AA777386, AI554876, BE671069, AI014540, AI688634, AI697997, AI688556, AW297238, AI806683, AW263154, AJ589076, AI149951, AA806969, AI741202, W44753, BF515202, AA974046, AA931887, BE763568, AA382865, AW969873, AW614265, AW082158, AA781969, R23772, R09585, AI207121, AA484643, AI538065, AW440609, AI619547, AI088390, AI741925, R09490, AW196711, AI584006, AJ702846, AV755023, AL043103, AW959372, AW951170, AB023584, AF228917, AB020860, AK001608, Z47777, A30438, L40401, I25947, U46128, AJ133038, and AR040601.
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 AR031374, A49700, AR031375, AX001325, AX001326, AX001323, AX001324, A58521,



HKBAL08	134	958219	1 - 852	15 - 866	<p>I18371, AR025207, AX006820, AX035632, AX035630, AX035631, AX035629, AX006819, AB037923, AX006818, A38214, AX033488, AX033489, AX033490, A44171, I56772, I95540, AR018924, AX033474, AX033486, AX033487, A63067, A51047, A63064, AR018923, A48774, A63072, A48775, AR068507, AR015960, AX006823, AR000007, AR015961, AR068506, AR079804, AR036905, AR072501, AR072503, AR072502, AX023549, A25909, AX023550, AJ244003, AJ244004, AJ244005, AX001082, AX046223, AR020969, A67220, AR035974, AR035976, AF261964, AR035978, X73004, A85477, A85396, A98767, I19516, A93963, A93964, I63120, AX008555, A95052, AR043602, AR043603, A95117, AX023555, AX023554, AX023556, AX006817, A23998, AX023552, AR05490, AR095491, AX023547, AX023551, AX023546, AX021518, AX006821, AR037157, A86792, AX042372, Z96142, AR054109, AX003194, A97211, AX006825, AX006826, AX006822, I00074, A64081, A58524, A58523, A24783, A24782, A81878, AX006824, AR069650, A15078, I03343, AF156296, V00745, AF261959, AF261960, AF261966, AF261962, AF261963, AF261967, I03665, AR036903, D28584, I03664, E14304, I19517, AR096518, A27396, A76773, AX000085, A22413, AX042377, AR091518, AX042375, AX042373, A49045, E16678, E16636, AR093392, A82653, AR072500, AF261968, A93016, AF156294, I01992, and I25027.</p>
HKADF15	135	960658	1 - 2143	15 - 2157	<p>AI598222, AA722521, AA961088, AW813731, BF953169, T47819, AA297068, Z40359, AI698654, T47848, AW384795, AP001711, AP000248, AL136295, AC004867, AP001748, AL133245, AC004166, AL354720, and AL158830.</p> <p>AL537210, AL533136, BF345427, AW149077, AI189363, BF725380, AI052124, AI972848, AI336302, AI816720, AW192810, AW055174, AI148561, AW026468, AW072848, AI889989, BG163656, AI678779, BF966582, BF349689, AW152007, BF337402, AV733778, AL533137, BF969402, AW964811, AV702560, AV752950, AA411195, AA632007, AI754763, AV725935, AA187659, AA488502, BG012437, AA411095, AA488517, AW380192, W81692, W68748, AV733973, AA128063, AA579881, AA037211, AA488385, AL535898, AW581075, W29006, AI127593, BF958186, W81265, BG000741, AW581079, BE138892, BE856061, W81693, AA479844, AA044753, AA707190, AI005306, AA186718, BF382521, AI128816, AA838684, AA112161, AA037185, AI128549, BE765227, AA488370, AI038838, AW510870, BF590113, AW241743, AI191834, AA634260, AI375760, BE979900, AA946838, AI122640, AI799431, AW150253, AI807683, W67176, BG000745, N39772, AI610621, AI126866, AW088704, W68726, W94696, AI189851, AI423369, AI167706, AI750804, H09725, AW014642, AA682978, AA186659, AI701245, AV725200, W17262, W47107, AI620250, AW085733, AI365999, BF243094, AV745950, AA102171, AW382122, W69696, W84609, AI066654, AA186789, AA188311, AI038848, AI138433, W80472, H10483, T95046, AW005675, R52327, W45606, AI750805, BE714469, AA186646, BG009129, AA705736, AI375026, BG013718, AI742719, AI096392, AA970331, AI189681, H42958, AI831119, R64072, BF726628, AA181038, AA083962, W67175, BE168843, T15745, BF934277,</p>

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HOGES55	136	961337	1 - 1963	15 - 1977	AW976735, AA883247, AW317020, AI091039, BE349081, BE221788, AI080490, AW009024, AI421443, AI141417, AW838561, AI333982, AW020988, AI332667, AI003921, AA740607, AI373690, AA424587, AA400517, AA972391, AI379240, AA633581, AI370902, AA620797, AA757270, AA909500, AA424632, AI680616, N32107, BE858145, N56779, AI870588, R71439, AI270464, AI085139, R43738, Z41046, AA225666, AI767739, AA502917, W37208, H00748, BF511394, BF887497, AI270346, AW271656, AI791895, AW805578, AA225611, AW370265, AL041562, AI792126, AI299358, R89180, BE671252, AA809663, AW183464, AW838715, AW838708, AL036881, AW029142, BF764614, AA805240, AI872415, AI351544, BE143557, AW299713, AW367344, BF875698, N74449, Z19142, H54493, T50149, D29384, H73186, H90881, AI133051, AF227906, AL021329, AL157406, AL157381, Z83843.
HKZAJ14	137	961458	1 - 1254	15 - 1268	

HLHAE14	138	962362	1 - 2040	15 - 2054	AC008551, AL109612, AP001696, AL136455, AC016689, AL109799, AC005204, AL139810, AP000340, AP001761, AC003049, AL135790, AL031054, AC010168, AC004106, AC004853, AL118496, AC068999, AC005014, AP000217, AC018698, AP000529, AP001731, AP001606, AP001605, AL118507, AL445188, AP002027, AC040163, AC010491, AF188025, AC010419, AC002066, AC007558, AL121823, AL022397, AC003968, AL049765, AC006978, AJ133269, AC007316, Z82194, AP000081, AL133229, AC004025, AF064860, AL161771, AC006287, AP000528, AC007683, U66059, AL034375, AC010627, AC010142, AL158144, AL109931, AC007132, AC005245, AL035604, AL035542, AC004453, AL139115, AL163280, AP001683, AC007920, AL135936, AC016898, AC004981, AC022509, AC006324, AL034369, AL360078, AL121582, AC012087, AL445669, AC011504, AL049646, AC005837, AC005227, AC000059, AC009196, AC009313, AC006265, AL354793, AL137251, AC007963, AL354866, AC007051, AC022203, AL162718, AL121590, AL049565, AC008739, AL139093, AL109919, AL132994, AC006026, AC007157, AB041731, AB020863, AC008534, AC004175, AC008468, AC002122, AL137013, AC008876, AL163218, and AB042031.
					H49208, AI248942, AA358780, H60492, H60446, AI243090, H49394, AP001724, AL031591, AC006924, and AC005234.
HBCJN16	139	965190	1 - 868	15 - 882	AI978837, AI627369, AI564009, AI628545, AI690964, AI538855, AI860651, BF222777, AI683754, AI970793, BF436904, AI812041, AI829891, BF589851, BF032982, AA642553, AI560810, AA470903, AI359026, AI921985, AW664949, AW591110, AI083732, AI818681, AI827128, AI961526, AA125808, AI160064, BE898095, AI564610, AI624988, AI924700, AI278468, AW874402, AA483290, AA858390, NS2182, AI225074, AA766421, AI376593, BE396135, AA830375, AW473661, AI698343, AI986231, AW950982, R89609, H78819, AI540430, R88929, BF691490, AA653492, BE382384, AI242782, AI241315, AI699227, R59708, AI613142, AW473446, AI244930, AW051166, AW193591, AW797434, AA909760, AW242968, BF221706, AI336173, AI923108, BF364662, AA128281, AV733824, AV757816, AC004602, X97966, X14479, X14047, and X72874.
HCGAF29	140	965372	1 - 2309	15 - 2323	AL528207, AU124711, BE745523, BE740018, AU124009, BE730967, AU132736, BE899077, BG261113, AW968672, AW971792, AI492156, AW235604, AI880771, AI697107, AI638177, BF183859, AU148517, AI968089, AI624692, AI378254, BE349453, BF062207, BE505015, AU150234, AU154209, AI922229, AA775806, AW044370, AI086087, AI151386, BG105708, AA423984, AA278565, AI073529, AI203148, AW117988, AW470396, BF827404, BF880196, AL135528, AV681665, BF445663, AA423985, AA481532, AW779281, AU127788, AI567161, AI266199, T93231, AI696723, AI655248, AA916500, AA811605, AI749400, BE927591, AA481598, AA523223, AA431069, AA522577, AI696237, H42013, H42014, T92694, AA743286, BE302733, AA258068, BF939161, AA417908, AA723166, AA418159, AL119399, AL119511, AL042382, AL042544, AL119457, AL043152, AL079794, AL134524, AL043168, AI675778, AI370623, BG166654, AI270183, AI613144, AI521799, N25033, AI368579.

AL515033, AW151766, AV749238, BG034746, AA639533, A1619820, AA521431, A1431323,  
 BG113373, BF525578, AW059568, AI307557, AI524179, BF835240, A1439762, AW193020,  
 BG164558, AI364167, AI247082, AL042866, AL047763, AI589428, AI620864, AI581139,  
 AI950729, AL514871, AI879377, AW150578, AW162194, AW673679, AW970048,  
 BF531023, AI241901, BF337043, AI537677, AI242246, AL039011, AL513961, BF974886,  
 AI539260, AI121306, AL043166, AA761608, AI638644, AW089844, AI621341, AI224373,  
 AI401697, AI499963, AL515191, AW071417, AL515021, AI345415, AI923989, AW051088,  
 AA857847, AI225000, BF73014, BF71374, BF868489, AI698391, BF970509, BE963599,  
 AW075382, AL513755, AI927233, BF965891, BE879047, BF342298, AI345688, AI469157,  
 AI699823, BF812960, AL514691, AI683173, AL036403, AA969375, AI765469, AW080746,  
 BF751457, AI590043, AI633305, AL513977, AL514879, AI539690, BF035213, BG113299,  
 BG032704, BE873695, AW192300, AI499890, AL514205, AV647670, R40363, AW834282,  
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 AI263312, BF343205, AL513689, BF871314, AI491710, AI863002, AL046466, AW301861,  
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 AF082526, Z97214, L10353, AL137254, AB048881, AL161954, AL353940, X72889,  
 AL133558, AF126372, AL117587, X63410, X97332, AF151109, X76228, AF177401,  
 AL137550, S71381, AL122110, AK026633, AL137292, AK024588, X66862, AL050277,  
 AB048975, AF126247, AR081734, AI132433, AL133061, AL122045, AF067728, AX042059,  
 AL133088, AK026038, I33392, AL117460, AF026124, M27260, U49908, AF116631,  
 AF113677, AL117416, AF031147, AL137574, AF180525, AF057300, AF057299, X61970,  
 AR068753, AK026843, AF112208, AF061795, AF151685, AF026008, I89947, AF047716,  
 AL137627, AL080234, AR053103, L04859, AK026649, AK026592, AB047627, AK026462,  
 S36676, Z13966, AL357195, X98834, AR082685, AF242376, U72620, AF130102, AI18777,  
 U70981, AJ005870, AK000257, AK025658, AF185576, A08910, AR038854, AL355701,  
 AC002464, A08909, AR013797, AL137530, AL137271, AK025798, AL122100, AF090886,  
 AL137533, AR034821, AL137479, AL137267, AF245226, AF314091, AL162002, AL137275,  
 AF113019, A08908, AL078630, X79812, AR012379, AL080146, U02475, X83544, S7771,  
 A91160, AL117457, AK025113, X59813, AF030513, X66366, A91162, AK000653, AF132730,  
 AF026816, AK026626, AK027161, AK025209, AK025239, AL137529, AF254119, AL133015,  
 AJ005690, AK024978, AL137657, AF116688, AL133084, AL049339, AF119899, AF087943,  
 AF119857, AF130099, AL359620, U35846, AL133049, AK027260, AF035161, AL162001,  
 AK027095, D44497, AF218000, AF271786, AF124728, AR083283, AL133619, I48978,

HAHEF81	141	967634	1 - 702	15 - 716	<p>AL110218, AL389982, AF001666, AK000652, AK027081, AK026528, U89906, AL117626, E12580, AK026541, AK026959, AK025092, A08912, E01314, U62807, AK025708, AK024747, AL161964, A08911, AB052191, AL137459, AX020124, U79523, A57389, AF130056, AK025391, AF049488, AF115392, AK027103, AF131821, AF017790, AK025632, AB044390, AF044323, AF124435, E08516, AF167995, AL133560, U75932, AK024533, U92068, AK000074, AK026571, AF126488, I09499, U83172, U75304, AK027209, AF158248, U73682, I32738, S76508, AF104032, AF130104, E03348, AK026597, Y11254, E03349, A76335, and AR029490.</p> <p>AV683103, BE305206, AW001250, BE305236, AA643098, BF038371, AW054839, AW973518, AI833102, AW083028, AW469562, AI089867, AW134724, BE563230, AI770105, BE798906, AI859283, BE794306, BE727113, AI802405, AA576674, N94517, AI310487, AI367446, AI220318, AW079526, BF431056, AI309785, BE791858, BE736541, BF685650, AA576675, AV700158, AI810441, AA868821, H91632, AV722364, BE305124, AA884876, AA745899, AW406468, BF591335, AI887153, BG025439, AI091509, BE386733, AW083220, BE293628, AA587461, BF877339, AI245325, AI684772, BE250144, AA114265, AA548065, AW296891, AI766800, AA085398, AW071593, AI919368, AA113184, AA886171, BF888965, AA082885, AI611050, AI805079, BF889006, AA305339, AA887298, AV696144, AI352497, AW151136, AI119863, AI862144, BG180034, BG030364, BG031539, AL041772, BF904244, AV655280, AW772685, AW020693, BF038131, BG256592, BF816037, AW268220, AI334450, AW673679, BE904051, AV704696, BG120816, AI520809, BG168549, AI610086, BF970449, BE785868, AI036274, BF814420, BF672397, AI269862, AI610756, AI689379, AI952217, BF822127, BE256437, AW827276, AI284517, AV721521, BE672647, BF968205, AI336633, AW148320, BG031664, AI498579, AV715560, AV760102, BG249582, AI251221, BF854113, AW827289, BG110517, BG164371, BF812933, BG031815, BF341801, BE048071, BE246734, AL119791, AI349957, AI036631, BG036846, BF727072, BE047852, BF338723, BE876033, AA427700, BE047737, AI537244, AI569583, AL041150, AV757639, BE544111, AV645906, BF038134, BE877769, BF792469, BE874133, AI364788, AI335209, BE047952, AI829327, BF812431, AI609592, AL042628, AI270707, AW023590, AI174394, BE880182, BF032768, BF726198, BF339322, AI889953, BG024332, BF826445, BG260037, BG168696, BG034609, AW082594, BF904265, AI349226, AI439478, AW103371, AI468872, AI955866, AI433976, AI500146, BF795712, BG257535, AI309401, BE886728, BE963035, AW268067, BF970768, BG112239, BF856052, AI620284, BF812938, AI524671, AW302992, BF814525, AI570384, AL045500, AI433157, AA572758, AL040241, BG026428, AW946806, BG252929, BF344652, AI656719, BE965724, BF814335, BF527014, BF816455, BF812960, AI539771, AI800453, AI340582, AI800433, AL039086, BG032208, AW071349, AW268122, BG029667, AI340603, BG110684, AI537677, AI445165, AA225339, AL120695, AI282326, AI500659, BE905749, AI554821, AW858243, BE887488, AW169653, AI349004, BE904178, BF885675,</p>
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	143	968171	1 - 2007	15 - 2021	<p>AW517942, BE714673, T59668, BE731030, BF939314, BE732766, BE745104, AI290469, BF477770, AI805651, AI961329, AA581089, BE902575, AW197375, AA974066, AI950259, BF802171, W27729, AV693783, AA877530, AA715365, AI968889, AA885542, AA160748, AA386371, AA335719, BF873961, W73105, BF223151, BE740826, AI120854, AA318192, AA501478, BF125073, AA581100, BE548914, AA658457, AI948815, AI621069, T59802, AA468334, AA503715, BF850755, AW956069, AW841506, AI144504, AA322115, BE897964, BF883404, BF373009, BE090290, BE168997, AW855521, AW820855, BG230749, BF376598, BE622839, BF923143, AK000069, AC015651, and AI47378.</p> <p>BF346477, BF970344, AI884801, AA233924, AI125760, H97661, H18098, H19086, AI193252, AI085879, H11343, AI134720, N23132, BF926085, AI671245, BG036879, D81062, AA412275, AA552173, AA503379, R49191, H18987, H19618, R34661, AW590283, F04762, BG056899, BF947363, BF509640, D60732, AI870535, H19253, R07822, H11367, AB046639, and AI09677.</p>
HDTGT18	144	968454	1 - 1566	15 - 1580	<p>AL526279, AL529830, AL524370, AL528814, BE562759, AL529831, BG165233, AL524371, BF685557, AI133513, BE887721, AI057617, BG252265, BE562767, AI982853, AI831623, BE515156, AA648914, AA873629, BE256597, BE222487, AW958929, BF725899, AA280089, AA878448, AW248558, AA744548, BE504278, BE795016, AI304316, BE302017, BE252066, BE295640, AA781577, AI185163, AI955795, AL526312, AI422964, AI571353, AI185152, AA460511, AI313197, BE018406, N32767, AI371028, AI696978, AW439404, AI150883, BE909535, AA447517, AA759128, AA806385, AI335852, AL536983, BF839452, AA459868, AA416893, AI859544, BF512726, AI023406, AA948038, N46869, AI369825, AI128795, W68616, AA025669, AI970652, BF055247, AA934724, AA448500, AI192983, AI167362, W86098, AA864949, BF684491, W69447, AI056657, AW368494, BE265673, AI301282, AA720593, BE695982, AA470054, W72840, W68762, N53510, AI249484, BE540573, AA974936, W69530, AI038444, AA936842, AI348453, AI014303, H98698, AA709334, AA808641, AI312674, AI199491, W92405, BE790027, N81039, AI057225, T03564, AI568703, AA626030, AA973884, AA602321, W00672, H12272, BE259065, AW591539, AA020993, AI368079, BE304909, AW514017, AA670069, AI933159, AV738245, AW058033, AA255941, W35340, T32967, AA568156, AA908647, AA054004, W37082, W46670, W46477, W69899, BF445619, N41767, AI630758, W92406, W86132, AA084553, AA256083, AW172949, AA903756, W72841, AI420992, AA280018, T19225, W69900, AA025668, BE858644, AI160240, BG054803, BE769759, N24265, AV754922, N69042, AW519261, AI475440, AV755645, AW952445, BF432703, AI073732, H80576, AA384632, AA954180, AA977386, AA731196, BE782364, AI546958, AA864850, BF088237, BE769753, AA018468, BE261321, AW661944, Z40864, W07667, AI084547, W37839, T89010, H18524, AI751885, AV744297, Z45130, AA022626, T31441, AW629168, AW362019, R41618, W23741, AA629248, AA059201, H80524, AV149176, F08633, AW368488, BE293875, BE910358, N80003,</p>

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HBLGD30	145	968949	1 - 3937	15 - 3951		AU134073, AU133830, AV648674, AV649343, AV661909, BE439435, BE884067, AV684104, BF130482, AW950668, BG179663, AV720745, AV719320, AU134196, AV658379, AV682989, A1683839, AV734860, AV718561, BF921039, AA219354, A1769578, BE898808, BE971367, BF126657, A1269889, BF574193, BF726784, AV720490, AA741202, A1687338, AU155184, A1302101, AV718656, A1950030, A1889538, AW419072, AA918982, AW088433, A1761095, A1309991, AA281666, A1923375, BE513666, AW006277, A1924724, AA166902, AA402240, AW273276, AU155289, N53433, AU149941, AW015771, A1963654, A1922198, A148138, AA492037, A163601, A1128266, AA946849, A1277947, A1343881, AA402701, AW474149, AV652478, A1289226, BE672470, AV682550, A1467936, H04844, AV648804, AA166973, AA171809, A1288268, AW303836, A1823730, BF924128, AA169335, AA769673, AV655147, BE971266, AA165482, AV661997, A1921934, A1358150, A1985661, AV651692, A1277803, AA283660, AA172240, A1812089, A1301236, A1690616, AA171694, AV658439, A1538280, AV658013, AV650229, AV656880, AW193233, AV656493, AV649185, N69299, AV720068, AV650236, AV658487, AV659340, A1064929, AV686668, AV652883, AW839157, AV695293, BE081066, AA661833, AV697695, AA172005, AV657340, AV654764, AV654748, W22608, BE006635, AW950671, H86642, BE065513, AV655339, A1886539, AA953507, A1933892, AV659795, H04754, AV728343, A1194079, A1524590, T68167, AA832118, T69598, AV661653, AV709878, AA333043, A1857292, T71679, T40113, T40914, BE934168, T51148, AW839165, AW118431, BE567199, AW089848, T28653, H86554, AA333248, AW167184, T68242, AW890922, H42697, AA344502, T67818, T67969, T41019, AV652268, AA283661, AW445174, A1926046, BE936364, T69670, R26189, AA344900, AA166820, R46148, AA825794, AA344899, AA527160, BG235955, AA171782, AV652035, A1684991, A1613148, BF571293, AW576487, AV696380, A1648426, BG054975, A1421700, AW050523, AW026809, AW519214, R26437, AA603131, A1301343, AW440530, AA863095, A1479558, A1310961, AW244013, AA172094, AA191647, BE172361, A1933890, BE936569, A1949429, N40513, N50749, AV659135, BF056055, AV661586, AW576821, BE392045, BE065578, BF087108, BF841532, BE065575, BF839027, AW372005, BF837371, BF844137, BF841534, BF155460, BF837360, AW606252, BF087056, BE065616, BF835820, AW383782, AW372003, AW383748, AW372012, AW383775, AW382951, A1909730, M13699, M13536, L33869, AF202115, AF134814, M18058, U49430, AK026357, D00025, X69706, Y12178, D45045, D45038, D45036, D45039, D45033, J05506, D45035, D45037, X04136, D45034, D45040, D45044, X04137, D45041, S77464, D45042, X04138, AF134057, Z24023, AF260927, AF075665, AC004226, AC009242, A1131017, AF141647, and



HFHK04	146	969387	1 - 904	15 - 918	AC011327, AI949559, AI810510, AA203625, AW959632, AA702005, AI991043, AW340445, BG251324, AA838409, AI961293, AI160070, AI160071, AA747429, AI143612, AA730360, AA773195, AA682367, AI298831, AA961230, AI268727, BF793895, R83902, BG236172, BG109845, AA953598, AA704547, AI146455, W38306, N79799, BE933639, AI864592, AA299329, AI140380, AI290069, AI186783, AW440342, BE164467, BE164468, AW139541, T91068, AA514600, AA195913, AA508637, T59891, AW816281, BF874763, D20437, AI288391, AA634125, AW965354, AA195432, BE255866, BE547821, BE741757, BF528086, BG258828, BE903000, AI111193, AI904111, AV728544, BF312864, AA318279, BE251694, C03377, AA310941, AW771668, AW964397, R39429, R98152, BE296575, AA370568, BE746935, BE793656, BE971409, AA411943, BF574705, BF316683, AA780433, T91217, AL523605, AA524887, BE185327, BE185262, BF169979, AA728871, AA328245, AF282903, AL136968, U92032, AL354868, AC012072, AC002074, AC007511, AL135924, AL133332, AL078593, AC007796, AL049874, AC016831, AC013358, AC017082, AF020803, AP001614, AC079045, AL163280, AC007564, AP001251, AP001743, AC004963, AL135749, AF217490, AL450169, AC010849, AC025809, AC009362, AC002352, AL031283, AP001679, AC005998, AC018641, AP001724, AP001669, AL023694, AL356414, AF015720, AC016816, AP001683, AI229041, AC026409, AC005005, AL031387, AL031429, AL136504, Z98747, AF017104, AC008033, AC008560, AC004068, AC004889, AL035427, AL333748, AL035089, AF248484, AL161638, AL133387, AC018642, AL163207, AC026884, AC008163, AC006967, AC008774, AP000472, AL023805, AC034235, AL163227, AP001038, Z98946, AC005601, AL133467, AL133382, AL050336, AL034351, AC016689, AC007126, AP001819, AC017002, AC004896, AC004048, AP001732, AC037193, AP001711, AC003109, AC006062, AC010498, AC005515, AC002069, AC007156, AC004184, AL022401, AC010305, AC016602, Z86062, AL161731, AL133517, AL121654, AC008042, AC010582, AL122021, AP001715, AB014088, AC004998, AL132633, AC066583, AC005229, AL136529, AC004190, AC025577, AC005738, AL118524, AC006031, AF119841, AL078623, AC004815, AB000882, AF000506, U85196, AP000279, AL136359, AP000516, AP000106, AP000038, AC004968, AF179633, AE000661, AC010723, AL161717, AC008268, Z84480, AL157765, AC004053, AP000108, AC009044, AC005880, AL121898, AF241725, AC008543, AL139189, AC008486, AL356057, AL049844, AL132657, AL133247, AL050308, AC005598, AL117187, AC006337, AC005099, AL031316, AC025030, and AL118505.
HODL24	147	969841	1 - 834	15 - 848	AL041101, BG177845, BF216023, AA281685, N41356, BF350128, BF211006, BF668757, BF932699, and AL355305.
HE8NQ16	148	970046	1 - 2887	15 - 2901	BF966722, AV706600, BF792757, BF976723, BE882014, AW149468, BF105008, AL138321, AA425241, AV724632, BF033996, AW578036, BF966526, AV746348, BF346432, AW752958, BF338848, AW263259, AI004242, AA037179, AA872675, N29085, BF955280,

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HOFMS34	149	973010	1 - 1006	15 - 1020	BE736746, BE379381, BE378584, BE378500, BE378075, BE515303, BE780938, BE614826, BE393601, BE394088, BE735483, BE392462, BE394406, BE378901, BE394632, BE378758, BE615872, BE388690, BE378357, BE387695, BE563033, BE392780, BE392047, BE395788, BE394179, BE392832, BE389364, BE389345, BE395181, BE392472, BE515219, BE615406, AA464826, AA453149, BE735871, BE392729, BE387682, BF210381, AA442802, AJ403128, AC007078, and AC004980.
HOF0B11	150	973505	1 - 781	15 - 795	AL333548, BE789099, BG116125, BE887081, BG107890, BF700463, BE880927, BG030517, BF030581, AW957637, BE781717, AV733955, AV710046, AV718270, BF668753, BF669212, BE701113, BF129991, AV714563, BG254144, BE878731, BF701393, AV651776, AA314273, BE568697, BE545003, BF242902, BF666696, AV757896, BE904360, BF78924, BF665580, BF028073, AW351912, BF697317, BF037589, AA305370, BF213439, BF724466, BF241919, BF185721, BF692658, AA306430, BF667996, BE888408, BF964977, BF669293, BF185277, BF700414, BF211541, BF665260, AV707435, AW752399, BF244581, BF541632, BF680798, BF028474, BE960947, BF104162, BF029708, BF667913, BF695497, BF665760, H18045, AV701697, BF381984, BF699689, BF184304, BF185628, BE365642, BF244157, AW630212, AV655721, BE569124, BF131429, AA181455, AA315633, BF132852, BF031301, BF692251, BF668875, BF691021, BE779388, BF213025, AA186625, BF214411, BE568476, BE898217, BF664872, BF690925, BF031185, BF243347, BE958024, W79010, BE865509, BF674472, AA531308, AV714850, AA204997, BF665354, R80694, BF307415, BE567887, BF977109, BF106436, AV755841, BG025945, BE568064, BG029271, BG249184, BF240785, AV682318, AV681563, BE814385, BF214964, H22737, BE168154, BF575790, BF664562, BF670667, BF215015, AA085686, AA001470, BF750591, W55909, BE168394, W20245, BF030440, BF752526, BF693954, BE865807, AA297247, AV661606, AA298432, AA298665, R64278, BF104127, BE813635, BF131056, AA297858, BF184679, W93867, BF757214, AV757484, AV759869, AA298833, BF241923, H21844, H00199, R93867, N25143, AA088796.

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HLDRT31	152	975754	1 - 697	15 - 711	AA884524, AI301704, and AI670928. AL534044, BE393397, AV683465, AV684627, AV689796, R95052, AL036390, AV660907, H56723, BF955572, T82240, R94378, H47159, AL045713, AV692841, H57229, T68625, R29170, H77694, AL046550, H67944, H67929, AW392670, BE695785, AW971745, AW804686, AL119319, AW604723, BE705903, BE705906, AW858526, AW858525, AL119439, AW861944, U46347, AL119484, BE705905, AL119396, AL119391, AL119457, U46350, U46351, AL119324, AW577135, AW384394, AW861889, AW858455, AW372827, AL119401, AW363220, Z99396, AL119399, AL119443, AL134525, U46349, AL119497, AL134527, BF868684, AL119363, AL119444, AL119355, AL119483, AW877209, AL119522, AL039912, AL037205, U46341, U46346, AW604726, BF868687, BF868697, AL119418, AL119335, AL134538, U46345, L11924, I36334, E12495, I84668, I36338, I36332, I36333, I36337, U37055, U28054, AL137798, AL021920, U28055, AB026436, AJ279014, AR066494, AX046357, AR060234, A81671, AR069079, AJ251859, AX030435, AR054110, AR043113, and AR080280.
HWLHW86	153	975771	1 - 1639	15 - 1653	AI718512, AIU123914, AJ748996, AI951481, AJ745085, AI809713, AL525153, AIU134222, AW188163, AI721217, AW007667, AW103479, AI828182, AW004850, AI686915, AI628538, AW070523, AI962963, AI697298, BG248600, AI471537, AI635101, AI889467, AI978632, AW860950, AW167961, AW474348, AW190605, BE674290, AI571882, AW129970, AI922593, AL047838, AI579919, AU126920, AW05284, BE869430, AI955311, AW242156, AW272287, AW873982, AJ743468, AW513282, AW129586, AW571890, AU117740, AI624711, BE869709, BE870743, AI469222, AI625272, AI684079, AI679591, AW780155, AA424668, AI679333, AW473340, BE047040, AW475082, AI571037, AW029090, AI809712, AA130871, AA528645, AI459465, AW780425, AI540550, AV748643, AA528637, AI024785, AA406196, AU155306, AA411381, BE672486, BF028802, AW591592, AA577525, AI333612, AI687294, AI241214, AI299682, AW473388, BE177710, AW749077, AA483903, AA847578, AA424571, AI889684, AU149678, AA502398, AA580416, AA130926, AW862587, AW820899, AA835115, AI707527, AW075441, BE394676, AI216279, AI579897, AI886530, AI285185, BF038363, AI285353, AA908633, AL525154, AA724605, AI219442, AV748644, AI269213, AI038566, AW769100, BE843159, AW196292, AW361641, AW610090, AI824537, N92767, AA527850, AU144491, AI475347, BE168336, BF034328, AI078813, BE159920, AA443854, BF759422, AI074078, AA846205, AI803815, AI300799, AI689710, AA983659, AI289495, AI022819, AW473456, AA548485, AA554075, AA235136, AW193746, AI338623, W33013, AA158014, W32964, AW578996, AI23271, AA635113, AI567018, AA157929, AA526284, AA113218, W39707, AI702978, AA137210, AW971233, AI364251, AA493629, W15485, AA446644, W19420, W35400, BE720821, W37704, R81916, AA146623, BF673265, AI494071, AW132100, AW951883, AA055858, AI215543, AA158159, AI625623, AI284796, AW971035, AW372994, AA160230, AI362334, BE002725, BE843163, AA234829, AI890170.

						BF754248, AA492337, A1340630, AA975975, A135511, AW372993, A1273060, BF761761, A1269466, AA121220, T92910, AA921713, BF754344, A1879463, AA911150, AA121180, AW188810, AA160229, A1420818, A1027882, W37705, A1261387, BE168499, AA932991, A1459610, R81812, BE697943, A1471346, BE075987, BF083338, AW380209, A1287287, AA975982, AA056345, A1868149, A1364013, BF823651, AW840200, AA843969, A1648613, BE768195, BE814795, AW189830, BF754192, A1608872, BF756276, A1264210, AA991650, BF756288, BE842954, A1870054, BE090012, BF886419, AA055808, A1540417, BE814799, AA948420, AA157928, AW168044, AW149942, AW168037, BF829547, BE937286, AW385044, A1459644, BE087104, AA143554, A1340883, AK026585, M33011, AX014895, X14758, M26481, M32306, I06776, M93036, M93030, M93029, I06778, M93034, I06777, M93033, AX046357, AR060234, A81671, AR066494, A1279014, M93031, M93032, A1251859, AX030435, AR023813, AR064707, AB026436, AR069079, AR054110, M93035, T93002, W31719, W31924, AA056712, AA136491, AA158227, T10928, D25749, A1611741, A1648637, A1687877, A1886222, A1915472, A1926113, AW025152, AW050533, AW051181, and AW189650.
HOFNM53	154	976051	1 - 1576	15 - 1590		
HDPSE86	155	976207	1 - 1781	15 - 1795		BF974829, BE397549, BE397511, BE562264, BF976322, BE561928, BE396546, AW245133, AW001450, AV708281, AW248252, AW247758, A1918591, A1299148, A1741759, AV705891, BF327331, BE718012, BF764942, BF353438, A1583563, A1961410, A1679359, AW081424, AA865519, BG260187, AA807017, AF086713, AF086714, A137462, AF262962, U31501, AK026830, and X52562.
HFFOE18	156	976216	1 - 1574	15 - 1588		AW964029, AA447232, BE155292, BE706821, W00562, A1752017, AA478880, BE072829, BE072835, H83253, AA377805, H53182, AW175670, AA295304, AA300104, C14702, AA431941, A1378520, AW444970, BF350693, A1127045, A1633683, A1345957, BF002061, A1033307, A1394583, BF349443, A1738683, A1677991, BE072831, AW207729, A1627661, A1274923, AW317022, A1983858, AA478623, A1751620, A1913309, and AL355492.
HFFNH27	157	976968	1 - 945	15 - 959		AL527962, A1517471, A1535489, AL538229, AA608734, A1760012, AW117939, A1038063, BE275287, BF966024, BF182712, BF794346, AV711147, A1992187, A1089408, BE271201, BE515144, BE785567, BG110602, BG028741, AW007641, BE735414, BE622727, AL538228, BE784154, BG108156, BG026353, A1444578, BE735452, BE277188, AW081275, BE562586, A1517470, BG034283, BG177569, BE270977, BF129032, BE730250, BE515135, BE745656, A1911660, A1762510, BE562179, AA573212, AW058227, BG252386, AW026216, BE781752, AV755448, BE780584, BF305350, BG036120, A1479604, BF976260, BE893200, A126121, BE794959, AA482981, BG026476, BE277036, BE905103, AW167227, BG166075, AL525753, BE513556, BF237575, BE885910, BG028762, BE886434, BE734123, BF309611, BE736636, BE789073, BE878062, BF794656, BE275217, BG249366, AA595496, AA843894, BE612825, BE893060, BF686280, BE887584, BF237505, BF675994, BG113631, BE297840, BF307019,

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HMM/BZ81	158	977264	1 - 538	15 - 552	<p>             HS9173, AL133861, AW131034, C06458, AL042282, AW467497, F34939, BF945995, BF760573, AA526099, AL120191, AI610634, BE149287, AW609312, BG106119, AA744449, AA744465, AA745470, BF853581, AA728911, AU145868, AL022336, AL133173, D84394, AP000509, AC007225, AC021036, AL133230, AC006111, U96629, AL034379, AC006050, AC003029, AL034422, AL109865, AC007619, AC010077, AF000692, AC004896, AC007227, AC011491, AP000967, AF200465, AL121905, AC004150, U78027, AC018755, AC005921, AL035422, AC005003, AP001725, AL022316, AL135927, AL391114, AC006312, AC009244, AC024075, AL138815, AF196969, AC005211, AC004596, AL035249, AC053467, AL136000, AF001552, AL050307, AC004678, AL031588, AL031284, AP001670, AC004962, AC010463,           </p>

					AC006329, AC004912, Z98051, AC005229, AP001759, AC018514, AF139813, AL034402, Z85986, AC002418, AC016644, AL035608, AL031291, AC007041, AC020916, AC010512, AL138976, AL031721, AL133211, AC004826, AC024561, AC018639, AC004867, AC002044, AC011529, AC018644, AL333804, AC007954, AL049760, AC002554, Y12854, AL049697, AC004386, AL022345, AL136365, AL096791, AC003104, AL022302, AC068499, AL031427, AC005839, AB038490, AL139382, AL139333, AC009225, AC004166, AL359502, AC006330, AC010328, Z97989, AC004531, AC004878, AC008496, AR036572, AL158070, AL034423, AC002476, Z99716, AL079335, AC002369, AC007229, AC005702, AL008719, AC006077, AC018511, AL136295, AL031723, AC011983, AC011494, AP000116, AC005098, AB035192, AC007537, AL356244, AC005412, AC005004, AC004000, AL136137, AL138706, AL049780, AC005840, AC019176, AC005821, AC000003, AC005363, U91328, AC027319, AC004983, AC005902, AC006452, AC003982, AP001435, AC005899, AC004057, AC005365, AC004965, AC019226, AC007000, L78810, AC005995, AP000008, AC003042, AC005516, AC000159, AL133245, AC004382, AP000704, AC012627, AC004232, AC005940, AC005071, AC083862, AC003108, AL080317, AL117694, AC003109, AC002045, AL021707, AL132653, AC005829, AC005522, AC010305, AL133215, AC007566, AL050335, AC005895, AL132639, AC016395, AL121907, AL031597, AC021019, AL157372, AP001753, AC031778, AL391384, AF003626, AC005803, AC078889, AL049872, AC006101, AL117341, AC005180, AC009509, AL445248, AL139286, AL139342, AC005488, AP001713, AP001727, AC008623, and AL354816.
HSLGF32	159	977704	1 - 1585	15 - 1599	BE784734, BF528372, AW664953, AW294691, BF670655, AA411625, AA464785, AA971619, AA909175, AA406575, AA256188, AA486336, AI868650, AW276335, AW271701, AI908352, AA488056, R93249, AI864543, T84938, AI282858, H95668, AA256150, R16409, R12671, BF588476, AI797610, T91956, BE622938, AL042508, BF755924, AL035669, and AL133063.
HEEAH23	160	978593	1 - 427	15 - 441	AL529051, BG168572, AV687207, AW247426, BE249849, AK022736, AB014549, AC008132, AC023491, AC007981, AC023490, AC007957, AC011718, AC009288, AP000552, and AC008079.
HODFU73	161	978812	1 - 771	15 - 785	AI337853, AI290624, BE613007, AW190836, AA036954, AW392096, AW452245, BF039005, BF699641, N95243, T25091, AA036998, AI648608, R47204, AC007392, U85707, U33630, and U33629.
HNBUA49	162	978998	1 - 1620	15 - 1634	AI871477, AL520825, AL525683, BF686227, AL040660, AI049979, BE746500, BG260309, AI051966, AL043088, BF792585, AL041341, BE249840, AI760387, BE273020, BF690244, AA772213, AW440407, AI860755, BF663608, AU118417, BG169576, BE873422, BE378917, AI192298, AI818417, BE293451, AI676150, AI828421, AI827007, AW071445, BE315277, BE293812, AI701967, AI690912, AW151086, AW167306, BE293738, BE250330, BE250827, BF526581, BF972183, AW795577, AW474833, BF527867, BE221350, AA837413, BE858496, AW071494, AW276436, BE260699, AW577804, BE304919, BE222850, AW673333,



AW075956, AW008097, AW673186, AW874024, BE855606, BF793342, BF981077, AU150636, AW105530, AW327799, AV716873, BE206545, A1423896, BF590102, A1422757, AU151805, AI583519, AV748565, AA100791, A1432149, A1625147, AU159544, BE501652, BF930542, BF382084, AV653600, AA210741, AU158743, BE080390, AU152148, AW769926, AW628440, AA179318, BE206099, AU150458, AA876177, AA563777, AU158666, A1362744, AA224191, A1421151, AL045323, AW591427, AU158727, AW327747, BF724136, AW674575, AI571339, AA625492, BE080591, AA978327, AW069351, A1623551, BE302154, AW406335, BF437649, AA100668, NS2191, A1803285, A1148219, BE388467, N62276, AA026368, BE293537, AA596028, A1133659, A1953887, AA548331, AA261884, AW958981, AA026460, AA961903, AW005591, AA179198, AA478699, AA813193, AW795406, AU124264, BF894701, BF894686, BF894695, BF894708, AA219239, A1858881, A1610775, BG179167, AA707867, A121073, BF892690, W74253, BF892630, H03937, BF892682, BF892687, AW474269, AA134606, BF892690, W74253, BF892630, H03937, BF892682, BF892687, BF894698, BF892676, AA570585, AA513041, A1133174, BF894699, AA501991, BF512446, AA586629, AA504801, AA013420, AA630849, AV083144, A1805490, N70821, AA643594, AA596034, A1289216, BF892680, C04747, A1271894, BF815785, A1289106, BF892679, W27280, AA026128, BF337556, H94254, A1049724, BF892629, AW501311, AA399054, H73103, BF856063, AU149956, AA037039, AA219235, A1271538, AV367209, BF892626, BE728143, A1366932, A1570907, H58110, AW651725, H80114, A1290432, A1754935, AW293220, W79805, AA025524, AA582440, AW575085, H73102, AA827997, BE439707, BE464656, H58111, AA489087, BE302060, A1270714, BF892675, BE301202, A1590856, AA744568, A1369704, R73204, AW780143, AW731637, AA380152, AA773895, A1590988, AA725266, AA219739, AA779610, AU146663, AU149538, AU160285, AU150445, AU148625, AA062970, A1499125, AA258327, A1637594, AA100845, AA974509, AA126274, A1417555, AW512043, AA568289, AA678785, AW007734, AA677610, AU149460, AF085356, AK026662, AF119874, AB018331, AK023840, AK024391, AC003663, Z70200, AK024833, U28386, AX021840, U09559, AC002069, AB044547, AB052191, A1359620, AF119875, A1136884, AK024986, A1162062, AK026647, A1389982, A1359615, AF130059, AX020124, AK026630, AF113690, AF130082, AF116602, AL035458, AL050155, AK025798, AK000083, AL049314, AF182215, AF260436, AF130066, AC007383, A1353625, AF116676, AF113694, I48978, A1137523, AF130054, Y13350, AF218031, AK026045, AK000636, AB049852, A08910, A1012755, AB049892, A08909, I89947, AF159615, AK025015, AJ003118, A1117435, I66342, A1136337, AF116688, A08916, AK025113, AK026452, S68736, X56039, E07108, A1110228, AK025431, A1389935, A1162002, AK024978, I30339, I30334, AK026600, AC004883, I00734, AF130104, S36676, AF217987, AF260566, A133031, AB038698, A1050277, X87582, AK024992, U49908, AK024546, AF079765, AF116654, A1353957, AF031147, A08913, AK027116, S79832, AK026793, A07647, AK026865, Y10655,
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					<p>AF130099, AF183393, AF001731, AF022363, AL137480, AL122110, AK024524, AK025967, AF125948, AK025375, AF119843, AB025103, AF097996, AF069506, AK024538, AF026124, AL137533, E00617, E00778, AL137479, AK026649, AK025119, AF116682, AK026593, AL353802, AB048954, AF091084, I89931, AL049466, AK025092, AL080127, AC006840, AL110159, U75932, AR087170, AL357195, AK026434, AF109905, AF185614, AF110520, AL080060, AL080074, I48979, M96857, AF262032, AK026927, AL096744, AX015915, AL353935, AL122049, AK026086, AX019230, AF110296, AF113722, AL137527, AC004987, AF104032, AF228740, AF116639, AF079763, AF113019, AL161628, AC020956, AK024588, AL049283, X62580, AF143723, AF109906, AL133665, AK027146, AL137529, AK025708, A08912, S77771, AL117432, AL442083, AR038854, AL121656, AL162004, AR038969, AL110196, X59414, AF130105, AL117460, AK025312, AL050149, D16301, AP001434, AF095901, AF056191, AR034821, AX019229, S78214, AF116631, AC026888, AK026592, AR013797, AF207750, AF100931, AF113677, AF119899, AK026480, AF217966, AF087943, AC024247, Y10936, AF225424, A76335, U90884, AL133081, AK026613, AL359601, AF130087, AF177401, AL096720, AC007298, AL080126, AF113691, AL049430, AP000130, AK027113, A18777, AL078630, E05822, AL133080, AL390154, AC006994, A08908, AK025084, AL049452, U87620, AC009079, AF130077, AF138861, AP000247, T67169, R20816, R24658, R25161, R40914, R41435, R41435, R73140, R81373, R81372, H06889, H46823, H54818, H54871, H81473, H94154, N32627, N46428, N48932, W01455, W06926, AA018684, AA025964, AA026187, AA054130, AA055045, AA055125, AA065166, AA065167, AA100667, AA179767, AA180497, AA195448, AA419052, AA423810, AA503664, AA505153, AA523741, AA533985, AA564040, AA593108, AA622976, AA640554, AA809927, N88176, C21410, AA650018, AA449101, AA653215, AA852239, AA854546, Z17869, A1049748, D19884, T17286, A1364637, A1453514, A1127010, A1539032, A1611219, A1589831, A1524665, A1686352, A1828866, A1869810, A1911878, A1933456, A1934178, AW009720, AW051077, AW071728, AW074449, AW151358, AW197391, AW272974, and AW297704.</p>
HVVDU73	163	979346	1 - 2290	15 - 2304	<p>BE616124, BE736954, BF688519, BG260795, BG259849, AW374307, BE616155, BE744973, BE292792, AW994447, BG248534, AW374312, AW374318, BE531047, A1940618, AW601821, BE672984, A1817651, AW170508, AA253308, BE868161, BG009649, BF435220, AW365668, A1940653, AW365613, AW081928, A1674909, AW572265, A1961488, AA573938, A1923587, AA159477, A1940633, A1620321, AW089967, AA636061, A1866782, A1888802, A1457146, A1932621, A1379539, A1186201, AW374300, A1262916, BF739152, AA934750, A1940625, AV656354, A1354896, W60466, A1318103, A1394281, AA588706, AW970628, BF736328, BF883594, BF689168, AW079392, AW369391, AW853512, AW188567, AW188566, BF833784, AA232902, BF736819, AW376365, A1472809, BF836557, AW751488.</p>

						<p>             AI368181, BE042388, AI625947, AA160436, AA552111, AA502830, T97710, BF812178, BE083633, BF737129, BF737107, T97813, BG222333, BG222571, BF914747, BF916953, BE871206, AW117966, AA715308, BE838489, AW392656, BF764625, AW291547, BE714141, BF734423, AW362652, BE714142, AW087246, AI682601, AW389752, AW375948, BF737124, AI700409, BE827597, AW074322, BE899333, AI824247, AW375934, AW366796, BF722249, BF882777, AW178433, BF843569, BF834553, AA300230, BE564406, AW794420, AW375987, AW375988, U42408, U58994, U58011, and AC006504.           </p>
HHESX72	164	979468	1 - 467	15 - 481		<p>             BF797761, AU130033, BG258778, AU119794, AW965889, BG028456, BF970462, AV728480, AL522193, AA315962, BE786036, AW960384, AV715388, AU131704, BE695281, AU132895, BF219071, AL536015, BF184112, AU129283, BF729622, BF696698, BG167039, BF034416, BE695309, BE265086, AA319546, H97758, BE544565, W90369, BF332962, AW408349, AI078747, N59486, AA359114, R09724, AW242801, AI765280, AI990488, BE244651, H22047, AA085546, AA091085, AL521415, AI858033, BF111619, BF061858, AA776634, AA359816, N56221, AW602190, AI040358, AI248524, BF792722, T18889, T70782, AW057675, T18872, BF906431, AI633892, AW205883, AW872943, AK023053, AK021905, AC005189, AK023007, AK001665, and AL049758.           </p>
HOCFY88	165	979547	1 - 1395	15 - 1409		<p>             AW004023, BF690205, BF791885, BG029479, BF000545, BE047000, AW977945, AA909986, AU151274, BF512375, AU147671, BE350857, AW467591, AA142943, AA811324, AA150646, AW468491, BE672409, AI301026, BF689816, AW845190, BE392310, AW514680, AI984280, BE140523, BF229544, U53081, D20997, AC006544, AC003065, AC005033, AF035299, U70987, AF180527, and AF229166.           </p>
HOGDC64	166	979666	1 - 1794	15 - 1808		<p>             AA868550, AL330411, BG254611, AW954131, AI201166, AW193909, BG151533, AW084462, BF791908, BE260095, AI922273, AA523858, BG260949, AA781100, AW105220, AA596049, AW005327, AI214604, BF984366, AI802642, AL524639, AW090564, AI567735, AA897529, AA193192, AA629069, AU147852, BF979856, AA858423, AA425360, BG149247, AA908794, AA778624, AI686401, AA393835, N72685, AA868129, AA923361, AU148101, AW183908, BE206598, AA075361, AA580324, BF743368, AI357135, AA926834, BE670517, AI803714, BF197076, AI284934, BG116362, AW983892, AI284936, AU154733, AI130025, AA758676, AA907260, AA311449, AI077310, AI298616, AA706885, AA969247, AI457308, BE045930, BF743297, AI418560, BE219395, AI043460, AA861359, AI720212, AI342423, AA468338, AI936296, AA075362, AA454947, AI458647, R37961, AW246825, AA136701, AW607431, BF743315, AA548507, AA973365, AA053135, AI659588, AI925822, AA425566, BE439633, N68585, AA834427, AI635130, AA167347, BG164125, AA431980, AI264546, AA431965, AA176535, AA748183, AW750653, AA989525, BF223350, F31676, BE253169, AA468339, AW950325, N46268, AA769323, AI985073, AA994254, AW470425, R53597, AI621110, Z24883, AI285063, W81103, AW090765, BF957740, AW628661, AW592166, BF767591, AI703044, AA385660, AI860560, AI202413, F30676, F32050, AA564380,           </p>

						BF746952, AI825239, AI968137, W79734, BE873411, AA287653, AA115881, R85239, AI744073, AA167348, T86533, Z38604, AW770643, R51927, AI202295, AA179037, AW270665, AI264373, BF798526, AA053156, H42012, AW444498, AW352219, BF333672, AA085898, AA470660, AI758554, T31099, AA558872, R38012, AA136762, AA287687, AA115880, T86441, AI468196, H42011, AA534699, AW804206, BE070180, N46267, N90395, AW844155, AA090750, AI675960, BF247759, BE349924, AW387224, AW388763, AA916893, BF743292, AA085897, W02464, AW389016, AW388799, AA736580, AW388788, T78373, BE709036, BE782320, AI952913, BF374837, BF374374, AI133347, D19952, AC003950, X97335, AX017488, AR023768, U95146, U95145, AF068202, and AF113698.
HSTBA14	167	980139	1 - 774	15 - 788		AW301736, AL042667, AL042670, AV695478, AW328202, AW238341, AI538491, AA569494, AA572983, W42588, AI278972, AL120141, AI821382, BE042006, AI307201, AA501461, AA837597, AA514450, AV761433, AI753969, AA613761, H68343, BE139139, AI250552, AV648653, AI284543, AW020612, AI689198, AV656063, AW613448, AI005613, BF917473, AI254770, AI744830, AI820534, BG030789, AI251284, AI251034, AI251203, AI223626, AI249853, AA526099, AV023515, BE138387, AA602105, AI798407, AI439393, AI690497, BE169870, AI692245, AL133519, Z83819, AC002350, AC021036, AL031733, AP001706, AC005844, AF017104, AL157372, AL117341, AP000073, Z84487, AC007282, AC011742, AL022336, AC019106, AC008011, AF049895, AL109797, AP001710, AL160231, AP001759, AL137073, AL391114, AL049713, AL133454, AP001683, AC058791, AP000104, AC007880, Z93341, AC011904, AP001714, AC008738, AC016689, AC008543, AC009225, AL024507, AB000882, AC006449, U96629, AP000344, AC007225, Z98946, AL050333, AL049838, AL121782, AC004491, AL009181, AL035249, AC005064, AL121825, AF205588, AC024082, AC009060, AC005663, AL121949, AC007546, AF107885, AP002530, AC011500, AL137060, AC005969, AC005216, AL031848, AC005291, AL133453, AL133802, AL078591, Z98742, AC002418, AC004386, AP001728, AC013429, AC018513, Z83843, AC002303, AL139826, AC005703, AC008008, AC003042, AL033381, AC005332, AC007938, AL121872, AC006121, AL138755, AC073574, AC011311, AL139109, AE000638, AP001725, AL138828, AC009236, AF196971, AC002429, AC009016, AC012156, AL157791, AC004847, AL109743, AC006160, AP001712, AC007486, AL157413, AC005352, AL109923, AP000692, AC005386, AC004977, AL034550, Z96050, AL360227, AC000004, AJ229041, AL121878, AC008267, AC025442, AL117333, AL136979, AL050317, AC008750, AL359704, AL031681, AF027390, AC004743, AL008732, AC009501, AC007690, AC005562, AC078889, AL355886, AC009238, AC005214, AF280107, AL121852, AC009470, AC007773, AP000352, AL031685, AL136365, AC005821, AP001720, AC020898, AL356379, AL049760, AL049776, AL441887, AC010219, AC003992, AL138752, AC012351, AC012309, AL080317, AC002381, AL035458, AL031289, AC003662, AC036103, AC007312, AL443687, AC006120, AC024600, AF241726, AC005358, U80017, AC004859, AL133153, AC027689, AC005069, AC007376, AC009953, AC018684,

HSPSY43	168	980269	1 - 2040	15 - 2054	<p>AC010363, AC007868, AC004833, AC004000, AL031427, AL022318, AC007240, AC003108, AC010328, AL132777, AC007542, AC006455, AL157827, AC006001, AC007637, AC007262, AF015720, AC006996, U91323, AL158167, AC004745, AC074331, AL121585, AC006372, AC009455, AF190464, AL033555, AC022493, AC003029, Z84474, AC016543, AC027644, AP001660, AC008518, AL391259, AL049834, AL121652, AJ239323, AL163853, AC002289, AC003488, AC004887, AC005690, AC007000, and Z98950.</p> <p>BF570385, BF570180, AL088647, BF966694, BF569195, BF970112, BE878705, AL535894, BF569896, BF340266, AJ810738, BF530956, AV725665, BF342973, AL692873, BE271105, BE857228, AJ927745, AW615420, AW151706, AW604247, AL635900, AW939256, AW957194, BG230571, AW379494, BE677698, BG056692, BFI2850, AW021444, BF690190, AW664391, AW139560, BG110726, AW874658, AW993371, AI814903, BF934595, AA181281, BF381326, AI376165, BE812324, BE812388, AW815353, AW391289, W28891, AV728400, AV728587, BE349042, AV728581, BF325900, AW337194, AW024107, BE396023, AG633395, BE162632, BF527023, AA588810, AA280897, AA225306, AW391295, AI079706, AW815349, AW615553, AV709840, AI355025, AW815345, AI933698, AA804867, H40915, BF886757, T28873, AA838292, N81045, AI880159, AA114109, H28176, BF961849, AA324213, R59225, AA683224, AW469170, BG057112, H01864, AW880763, AA937395, AI358224, W28380, AW246848, AA324217, H11123, R94484, BF874169, AA085617, BF928701, BF874235, AA085638, N36164, BF874174, AA324212, AW498678, AW067997, AA062605, R94485, BG025843, AA134213, H49769, H27022, BF805105, BF957582, AL535893, T16201, BF934521, AA350507, H20777, BF932804, AA280980, AW798119, H11229, AV737823, BE206328, AW248633, AA363975, W27715, H22592, BE833306, AA324216, BF447502, T15660, BE833364, H28112, H01863, R86196, AA487774, AA114108, AW385117, D51308, AA350426, H17100, T60117, D56034, R48122, D53610, AA304177, H93755, BG152466, AA826966, H61236, H85695, H40957, R44085, D51453, D53774, W07855, R78317, BF868560, BE714884, D54618, T52550, BF923220, R33264, BE208564, R36346, AA531190, R23239, T16142, F03239, R77946, AI699038, AA308600, R38937, R69514, BE812147, BE315213, AW058016, R33115, AA531179, R48009, AI867014, T03351, BE833265, AA307648, BG015610, AI906574, BE561639, AA350885, BE271301, BF445731, AA327459, AI906575, AA335642, BF803379, R28604, R48570, H30153, AW945153, AA350733, R28687, D51827, R50396, BE707678, R48669, H61237, BF844403, BG055063, R35977, BG252221, BF926656, T60235, BE833079, H93754, AW883909, BF753805, BF445635, D52027, R69383, AW298249, BF844409, AA317457, D51335, BF844405, R46848, H30776, AA747462, AI583318, AW800460, F10359, AA345500, W23224, R44794, BF844410, R42513, AA809531, R47759, BE019728, F07289, AW950062, BE771559, N44157, AA373489, BF093102, AW885353, N69784, AW885226, BG007722, AI358239, BF771401, R23314, R28550, BF933179, AL110273, J05243, U83867, X90845, J04828, X86901, AF084186.</p>
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HSXBH24	169	981029	1 - 2428	15 - 2442	<p>XI4519, MI9725, MI9726, A74748, A74747, AL162062, AK025407, AF262032, AF207829, AK026947, I89947, X62580, AL137538, I66342, AF102578, AF067790, A65340, AL389935, AL35957, AL355701, AL110221, AK026532, AL137429, AK024588, I48978, AK000432, AL050172, AB007812, AL080137, AF130104, AF119909, AF113676, AK027136, AL137463, AF207750, AL133067, X79812, AL137548, A08910, AL080126, AL122050, A08916, AK026542, I33392, Z82022, A08913, AL137658, AL137294, AL162083, AF183393, AL122098, AF116644, S69510, A08909, AF065135, AK025632, A18777, AB050410, AF159615, AK027221, AK025435, I30339, I30334, AK000718, AL122110, X72387, AL049314, AF177336, AK026744, AK025092, AL359618, AF061795, AF151685, AL389978, AL050116, AK000450, AL050277, I89931, U92068, AL137271, U87620, E02221, AR087170, AL137478, AB041801, AK026583, AK026613, AK027142, AK025708, AB049758, S61953, AB019565, AF017437, AL137526, AL133093, A65341, AK000137, AL049382, U80742, AF015958, AL133560, AK026408, AF012536, AK026533, AL162008, AX019230, A77033, A77035, AL359583, AL137574, AK024538, AL137712, AL137558, AX027129, AR034821, AR011880, AL080124, AL117648, AK026894, X55446, AF130055, Y11587, AK026480, AK026522, AF116646, AX020124, AF130077, AK025383, X72889, AF155148, AK000652, AF116688, AK026504, AB047966, AR029490, AK024601, AL359600, AK027161, AK025209, AF130105, AK025541, AL080127, AF090900, Y14314, AK026927, AF130082, S77771, A08912, AL137660, AL137656, AL133619, S78214, AX019229, AX026824, AX026823, A58524, A58523, AK026534, AF090934, AL122049, Y16645, AK027096, AF097996, AL133080, AK025339, AB048974, AL359601, AF090886, AK025015, AL389951, AF208850, D55641, AF116631, AR038854, S68736, AL359941, AF113019, AF119894, AF111851, AF113677, AX046842, AF090943, A08908, AK026353, AF225424, AK026784, AK027164, AL117460, AB044390, AK026624, AK000250, AF130099, U77594, S76508, AF116682, AL137300, I89934, AF013214, A23630, AL133640, AF130100, I03321, AL137459, AK027160, AB052200, AK025524, AF158248, E03348, AF111112, AK024594, AL080060, X82434, AL137283, AF119899, AB047615, AL049466, AK026885, I48979, AL049452, AK000083, AL137550, AJ010277, AK000690, AL117435, U35846, E03349, X63162, AB047248, AX047644, AK025958, AB052191, AF153205, AF113222, T51433, AA634707, Z19669, Z19896, A1678283, and A1701294.</p>
HSXBH24	169	981029	1 - 2428	15 - 2442	<p>AI052508, BE048691, M79221, AW338514, AI262660, AA953663, AV726620, BF752825, AA813125, and AI373503.</p>
HOFAG61	170	981108	1 - 1219	15 - 1233	<p>BG033389, AI393309, AW005351, AI807923, AW960185, AW166132, AW664889, AA194090, AI916382, AT799077, AW328387, AW340414, AW960398, AI131240, AI188081, AW300307, BF131508, AA855025, AA287690, AI694793, AI138878, AI362805, AI198516, AI131388, AA287658, AW139698, BE551852, AA934428, AI701814, BF056959, AI824988, AI680753, AW328388, AA308513, AI654495, AA304908, AI955554, AV741520, BF111228,</p>

HCPOF82	171	981272	1 - 1549	15 - 1563	BE673760, BE673856, AW087574, AI630546, AA062563, AI969069, AI309588, AI266070, AA987983, AI675830, AA960973, R01958, AA973643, AI990363, BE671742, AI741149, AW138983, BF874358, BG057469, Z63217, Z62190, and Z54706.
HOCMT79	172	981309	1 - 1580	15 - 1594	BG026326, AW966939, AW967551, BE737753, AI435412, AA250982, AA811466, AI376343, AI081045, AI742225, AA131095, AA131031, AI942351, AI341938, AA489627, AA993407, AA489728, AW473525, AW268683, R91619, N98926, AI085828, BF082425, AI168315, T78254, AA250983, AA320897, AA454806, BF935477, AW380400, AA864917, W31152, AW514550, BE003760, and AL133558.
HKAEI03	173	981319	1 - 452	15 - 466	BE798445, BE304432, BE731636, BE897199, BG255861, BF979006, BE812965, BE728469, BF128024, BE263640, BE727056, BF358932, BE206746, BF942861, BE540525, BF311992, AW362926, R67305, T33893, AW945345, Z46204, AA324589, AW965329, AW965323, AA324404, T80030, H50913, AA281511, AA333367, BF381111, BE816128, T08567, BF991518, R18797, AA332977, AA687499, BF946438, BF822854, AA223464, BE796302, BF917604, AW392506, AW601333, AW372325, AW601316, AW601334, AW372336, AW392504, AW392498, AW372308, AW372323, AW601317, BF725792, AR087892, U32575, and AF055006.
HOCPO31	174	981593	1 - 1686	15 - 1700	BF342305, BF972034, AV702899, BG250659, BE875013, BG255188, AW732994, BF969129, BF973001, BF130310, BE779851, BE268549, BE783925, BE272577, BG024907, BF127762, BE784922, AI751567, AI138643, BG027985, AI364787, AI131276, AA010288, BE464595, BE858428, AI810680, BE256739, BF431981, AI312112, AI659460, BF964885, BF038601, AW614586, AI918066, AI421103, AA159852, BG036944, AA143643, AW131612, AA577070, BE170902, AW418672, F29120, AI885777, AI540181, AI889585, F36716, AB037839, and AF006043.
					BF344523, BG120897, AI928341, AW026244, AL119974, AW003141, AI953528, AW004077, AI803375, AW001409, AA716616, AA425741, AA677488, AW594550, AI193181, BE349215, AW795298, AI262269, AW297973, AW592480, AI042286, AI436208, AI126751, AI149281, AI167937, AI187153, BG006418, AA883372, N53016, AI962663, AI143577, AW242268, AI049776, BE677119, AI818483, AI272839, AA595397, AI032066, N78497, AI742227, AU134204, AA938952, BE041590, N73656, H00225, AI187185, AI986359, AW152033, AI032073, AI302095, R77880, AW128839, AW594571, R94775, AA806624, H24559, R64451, T09483, R94950, AW957178, AI252768, H17531, AW193712, AA057787, BF061972, AW296092, AI435183, H00177, AW340042, AA535123, AW079257, AA834425, AA595382, AW662791, AI949751, AI968910, AI806704, AI954639, R34244, H21209, AA047604, R94693, F10899, R35571, H22912, AA425233, AA931668, R63839, R39530, T77481, BF357906, AW401504, R55754, BG058398, AI802542, AI440239, BG110684, BG179993, AI869367, BF527014, BE048026, BF725868, AL036631, AV715331, AW071417, AI500077, AI269696, AV650703, AV682479, AI758437, AW087445, AV715263, BF868489, AW071349.

AI270055, AI608936, AW827249, AL135661, BF792740, AI572676, AW303152, AI497733, BG257535, AI475371, BE018334, AI686831, BF727091, AL041573, AI119791, AI636456, AI612913, AV756122, AV703695, AL036274, AW051117, BE785905, AV681951, AL036361, AV682787, BG260037, AL040243, AI934036, AW301409, AI682743, AW129659, AI513999, AV729890, BG164371, AI119863, AV757455, AL702406, AI679506, AV652906, AL079963, BE047832, AW104724, AA640779, AI281837, AL045500, AI309401, AI564719, BF054877, BG22103, BG031815, AI343112, AI619502, BF882343, AI349598, AI318280, AW169653, AW026882, AV757737, AV733470, BF885675, AI345735, BF812938, BG109270, AL514085, AI433157, AL036146, BF812961, AI811344, BE048071, BE781369, BF036115, BF724691, AI349957, BF793644, AW274192, BE887488, BG165051, BF726451, BF727212, AI567360, AI433976, BG027280, BF795712, BG180034, AI340382, BE964700, BF727421, AI536685, AI934011, AI282281, AW075351, BF725644, AI513907, AL440426, AW148320, AW074993, AI349614, AI812107, AL119828, AW170635, AI281779, AI538716, AI349004, BE884130, AI569583, AI285826, AI312152, AL515191, BF971016, AV717295, AV755415, AI349937, AI499131, AW268253, AI633308, BG114248, AV755668, AI863014, BF343172, AI567351, AI620284, BF872670, BG107847, AW089572, AI348897, BG180996, AI862144, AI500659, BF793324, AI862142, AW090013, AI207510, AV758110, AV713079, AV733397, BG112879, AF038203, AF217798, AF290472, AF015037, I48979, I89947, AB052191, AF116631, AI117460, AF113694, AI110196, AI133640, I48978, AF090900, AF116646, AF130104, AX019230, AL122050, AL050149, AL133016, AF113690, AL442082, AF116688, AK025084, AL050116, L31396, AF078844, L31397, AF113019, I89931, X84990, AF110221, AX019229, AL122121, AL049314, AL137557, AF116644, AL442072, AK026855, AF218014, AL117457, AB019565, AF130082, A08916, AF090934, AL389978, A65341, AB048953, AF225424, AL162006, AF090903, AL049452, AL122093, AF113677, AF116691, AI162083, S78214, AR079032, AF090943, Y11587, AF118070, AK000212, AL133075, AI157431, A08913, Y16645, AF130075, AL050393, U42766, AF1133606, AF106862, AB048964, AK023339, E07108, AL137459, AF158248, AF119875, AF113691, AF113013, AJ242859, AI359601, S68736, A93016, AK024538, AF119909, AL133557, AF116639, AF130105, AF138861, AL137527, AB041801, AF130059, AB049758, AF111847, AF177401, AF090901, AF104032, AB047615, AR087170, AF113676, AL050146, AF146568, AF119878, AF113699, AI133560, AL390167, AL080124, AF219137, AF116602, AF125949, AL050108, AK026045, AK025958, AF118064, AX046603, AL050277, AF110225, AF090896, AF113689, AK026741, AK025092, AK026865, AL080060, AL133563, AF130066, AF119899, AL049938, AL133080, AI359596, AF130092, AR059958, AL096744, AL080137, AK027116, AR011880, AL359618, AF130099, AK000445, AK026534, AK026542, AL117394, AK027113, AL122123, AB047904, AF207829, Y11254, AJ000937, AK000083, AK025491, AI17585, AX006092, AB051158, AL389982, A08910, AK000137, AI049466, AK026452, AF135941, AK026533, AF23348, AI050022,



HAOTG88	175	981606	1 - 807	15 - 821	AK026744, AF017152, AF242189, AF116649, AL353940, AK000618, AF130110, AK026608, AK026592, AF314091, AF091084, AK026504, AF177336, AK026784, AK026927, AL122110, X63574, X82434, AK027096, AF116682, AL117435, AF017437, AK026959, AF111851, AB04894, AK026532, AK026647, AF125948, AK000652, AL049464, AK026824, AK026823, AS8524, AS8523, AL133093, AK026583, AL117583, AL137550, AF079765, AJ238278, AK025772, AL359615, AL137283, AL050138, AK024524, X72889, AF175983, AK026353, AK000323, U91329, E07361, X70685, E02349, U00763, AB034701, AF119871, AK000432, AF097996, AF260566, AK025967, AL049382, AK027204, AL122098, AL049300, A77033, A77035, AL049430, A08909, Z82022, A12297, AK026086, U35846, AK025391, AK025414, AK027164, AK000647, AF118094, AF183393, X65873, AK026528, AB052200, AK026947, AF130077, AF116610, I33392, AF116654, AK026480, AF260436, and AK025484.
HVCAH21	176	981768	1 - 746	15 - 760	BF316070, BF568141, AV758470, BF527619, BE314804, BF969586, BE409471, BE410535, AV733489, BE261170, AW157185, AI928869, BF304497, AW024568, BF971396, BF310503, BE296966, BF980412, BE408549, BE884399, BE386397, AI907018, AW440484, AA883920, BE793077, BE794471, BF206989, BE877585, AA496679, AI378856, BF311371, AI859291, BE350719, BE895663, BE885969, BE315547, BF241672, AI817825, BE793139, BF210205, BF216772, BE733918, BE897650, BE312906, BE905785, BE879978, AW516581, BE382725, BF038020, BF026271, AI624337, AW732541, AW674196, BE262376, BF237436, AV710278, AV740622, BE899283, BF206520, BE276874, BF206851, BF237515, BF243039, BE313650, AI024995, AI174779, AI572642, AW163157, AW651789, AW732534, BF125793, AI025126, AI474128, AW474610, BE547663, BE831015, AI187250, AA877228, AI267915, AA886988, AV733930, AI182921, AA642996, AA306692, BF126019, AV741980, AA075599, BE263229, AA181154, BE831027, AV756250, BE205781, AL526932, BG118384, AA075346, AI929036, BF734890, AI400538, AA316049, AA181153, AA526075, AA315701, BE709954, AA098806, AV727129, AI130645, BE218789, AI421479, AA482798, AI144352, AW022366, BE871748, AA451691, F36272, AA722490, AI015274, AI860627, BF767068, AI476031, AI196855, AI076945, AA601896, AA603149, AA037796, BE792238, BF674456, AI266715, BE932205, NS3005, AA307818, AV727405, AA125759, BE710240, AI194072, AV764534, AA210871, AA130034, T74180, AI985806, BE709957, AV735365, AA070953, AA714540, AA453235, AV744480, BF030579, AA130033, BF239974, AA443652, AA385659, AW583010, AW675307, BF966331, NS2289, BE045155, AA130615, AW277116, BE645844, AA912073, BF184415, AA856876, AA478103, AW276117, AL527098, F25881, BG117430, AA065190, BG028557, H49982, BE003862, AA187382, AW270600, F24478, BE792009, AA076185, BF091615, AW371216, AA725739, AA878729, N30376, AA365073, AA602423, BF091064, F24829, AA484666, BE870423, AA885827, AA745043, BF091625, AA156093, BE044822, BF375830, AA398035, F27966, F34663, AA861214, AA085547, AA371299, AA992886,

HFCK56	177	981812	1 - 1934	15 - 1948	AA729149, AA125927, R21220, AI309129, BF083672, F28738, AI194071, AA385118, AA522760, H50024, BE938043, F34023, AA075894, BF957593, F27814, AA300065, F22266, BF088891, AW878387, AA928593, BG116587, AA366979, T64054, BF733185, AJ468223, AA037795, AA988828, AI201346, F18153, T85727, BE925026, BF733197, AI424577, AA679881, AW191609, BF773420, F01150, AA181512, BE710233, AI201340, AA368477, AA070932, F34662, BF591747, AA341039, AA437360, AI659806, R21219, AI630052, AI906509, AF044956, AF067168, AX015054, AK026538, AF261090, AX014836, AC008085, S82655, AB000618, Y16001, T90822, H44903, R97009, N91532, AA197104, AA213438, AA427624, AA541521, F16918, AA953278, AA447037, AA476302, AA481825, AA433825, F00472, and AW271394. BE739833, AV751551, BE339375, BE79961, BE619356, AA012925, AI690904, AA418407, AW028084, BF061035, AI949671, BE219361, AA449061, AI95218, AA772167, AW771435, AI305287, BG056669, BG122658, AI039957, AI796800, AI421026, AW952787, AI689738, BE857334, BE797251, AW373177, AA037175, AI680796, BF001323, AI360089, BE440106, BF438532, AI568970, BF223290, AW299760, AI948837, AA418504, AA410416, AA976077, AI925315, N56916, AI744545, AI186166, BF344446, BE545371, AI801467, AI560863, AI307790, AI620925, AI685502, AA931566, AW589991, AW373172, AI094972, H22670, N44951, AW026324, AA772572, AI049895, AA449773, BE876258, N39575, W27237, BE878083, N33168, AA469378, AW028003, AA402063, AI276817, AW803238, AA351859, AA861181, AA938412, AW079992, AI311559, BF907727, H96974, AI888644, AA151221, AA351860, AW139343, AW130580, W32509, AA937530, H22687, AI813495, AA410273, AA993422, AA687549, BF941191, AI143750, W27206, AW373182, AA340324, AA044269, AI860157, AA151220, AI370443, R48542, R53630, H14486, AI271975, AI140110, AW593928, R12193, AW275061, W93548, AA321771, AI611136, W32606, T66931, BF941785, AA758353, AI581671, R48627, AA398924, AA349145, AW138501, BF527602, R96451, AW515323, AI674456, N59828, AI918973, R96452, AA991280, AI985395, AI687472, AI268792, AA338948, BF747204, AI284737, T83253, W27541, AA364215, BE719110, AA142905, R12929, AA410417, AI284737, T83253, W27541, AA364215, BE719110, AI880036, R62328, R51963, H27578, T66932, AI961564, D54538, AA847693, AA338947, BE538557, T49336, AI360057, BE939130, AI351186, BF818515, H04226, AA044169, H02921, AA026556, AA069380, AW138557, R62327, AW118418, AI198091, W96350, AI424187, R39917, AI868856, T10481, BE964453, BF507638, AA847337, BF735896, N72776, T90723, AI873143, AI682149, AI419753, AI472343, AI394598, AA436364, AA652885, T49337, BE002485, N46721, BE620017, BE622776, AI335238, AI810464, AI927142, AA069327, BE787445, AI078649, BF987031, T11055, AI564318, AX015375, AI162074, AB042237, and AF099664. AL515972, AW029556, AA004208, BE883613, AW015902, BF802700, BF666138, AI917287,
HAOSJ58	178	981859	1 - 1131	15 - 1145	

						<p>           AU149521, AA007410, BF791634, AA251650, AV716889, AU153411, AU151309, BF795834, AW474709, AW967661, A1247962, W58247, A1241375, AW594337, AA251538, A1492247, A1598036, N72095, W58248, AA603659, BF804913, A1431332, AA424023, A1744248, A1656462, AA664303, AW590631, AW592235, N23125, BG115061, AW105622, BF056545, A1913221, BG180121, AA886810, AA679595, A1373555, AU149339, A1380841, AW129016, Z39592, W02366, AA189143, AA777004, F02874, BE926666, AW731774, AA768164, BG122759, BE501179, N73304, BE926735, A1521225, BF737731, AA394252, AA424100, A1963833, A1282264, BG259121, A1476066, AK000638, AK024266, AF071592, AF277375, AF241316, AF179308, AJ271784, AK022717, and A133073.         </p>
HOPIT48	179	981862	1 - 336	15 - 350		<p>           F20667, AL514627, AL036146, AL513553, AL513597, AL513907, AL514919, AL513999, AL513631, AL514015, AL513911, AL514791, AV755668, AL514691, AL513977, BE965014, A1475817, AL513951, AL515191, A1469532, AL514087, AL513693, AL514867, AW085799, A1349772, AW074869, BE887488, BG109270, AL513713, BF793187, AL514063, A1500077, AL119748, AL514473, A1696846, AL514983, A1567632, BG112879, AL043326, A1702406, BE047952, BF793324, A1888953, BG110241, BG036846, AL515413, AW071349, AW071417, BF970446, A1537303, AV681618, A1349645, AL040243, BF817926, A1432969, A1800453, A1800433, BF882343, BG058398, BG179993, AW169653, AV682222, AV681630, A1521012, AV682252, BE969709, BG257535, AW169671, AW827249, BF883916, A1340582, AW301409, BG110684, BG260037, BG180996, AL045500, BE965891, AL513577, AL047763, BF816811, AW274192, A1620284, A1758437, BF812933, BG058208, BE048071, A1637584, A1349004, A1536685, A1568870, A1499463, A1249257, A1250293, BF970162, BF724691, AV756150, AL121365, A1702433, A1433157, A1224992, BE018334, A1580190, A1590128, A1868831, AW103371, BF792469, AW104724, A1682841, AW087445, BE781369, A1633419, A1538716, BE966388, A1498579, BF039003, A1866002, A1802542, A1433976, AV756328, AV729890, BF795712, AV709517, A1445025, A1564719, BF971016, A1349933, BG031815, AW238730, BE964812, BE964741, A1348897, BG168696, AV717299, A1697137, BG178488, A1497733, AW999049, AL036802, AV026882, AL044207, BG110517, BE964700, A1866608, AW162071, A1281773, BF817392, BF527014, A1539771, AL036396, AL036403, BE048081, AL135661, A1281779, A1570384, A1857296, AV757737, A1678302, BG151247, AW813006, A1269696, BF817392, BF343172, AV711924, AW148320, BF340031, A1275175, A1281762, AV756703, AL047041, AL041772, BE963035, A1064830, AW074993, A1567351, A1038605, A1349614, BG164371, BF726322, BG032208, AV089572, BG260881, AL038778, AW268253, A1282281, A1312152, AW075351, AV758209, A1345735, A1610645, BE047852, AL514097, AA640779, BE876033, A1349937, BE172767, AA613907, A1619502, A1500659, BE964876, AV682266, BG252929, AV681759, AW068845, BE909398, AL513943, AA508692, BE047863, BE904178, BF885675, A1620868, AV655645, BE877769, AL515019, A1636445, A1340519, BG178809, BG035511, AW148716, AV756342, AL514793, A1273142, BE965556, A1818683.         </p>

					<p>             AI580984, AV757865, BG250190, AV710479, BG259801, AL047042, AI754897, BF793644, BF107577, AI569616, BG114104, BE967104, AV738668, BG180034, AV757362, BF812438, AL514025, BG029399, AI524671, AL515041, AV682567, AV703695, BG179633, BG113662, AL119791, AI597750, AI572787, AL161802, I48979, AF116631, I89947, AF116646, AF116602, AF097996, AF090901, AB047615, AL117457, AR079032, AF078844, I89931, AL050116, I48978, AF116691, S78214, AF118064, AF130105, AF116644, AL442082, AF116639, AF090943, X84990, AF017152, AF138861, S68736, AF130082, AL050393, AR059938, AL110221, AF113676, A93016, AF118070, AL133640, AF090903, AL157431, AF090900, AF090934, AL050146, AF106862, AF104032, AX046603, AB048964, AF113691, AF218014, AF130059, AF090896, AF130075, AB049758, AF111847, AF119878, AK025339, AL138755, AL050108, A08916, AF133606, AL359596, AL049452, AL080060, AB048953, AF113013, AB041801, AK025084, AK026865, AF113694, AF113690, Y11587, AK026741, AL390167, AL133016, AF113689, AL389978, AF130092, AF130104, AL137527, AL162083, AF116688, AL110196, AK000212, AL359601, AL050149, L31396, L31397, AL117460, AL080137, U42766, AX019230, AJ242859, AL133075, AL159988, AF125949, AL442072, AF113677, Y16645, AL049938, AL122050, AL162006, AB019565, AK026608, A08913, AK026045, AL096744, AF113019, AL049466, AX019229, AF119875, AR011880, AK026855, AL049314, AK025958, AL080124, AF079765, AL133557, AF1146568, AL133080, E07108, AK025772, AF125948, AL359618, AF119899, AF119909, AF177401, AL122121, AK026542, AL117394, AF219137, AL122093, AL122123, AJ238278, AC027121, X63574, AL133093, AJ000937, AL137557, AL133565, AK026647, AL137459, AK000618, U91329, E03348, AK026583, AL117583, AK026784, AF116649, AX006092, AF158248, AK025092, AB052191, AR087170, AK027096, AF113699, AK026744, AL389982, Y11254, AL359615, AL359941, AK000137, AK026592, AL050277, AL133560, AF314091, X82434, AF207829, AF111851, AF091084, AK000083, AK027113, AL137550, AF017437, AK024538, E07361, A65341, AK000445, AK026959, AK026452, AL353940, and AK026528.           </p>
HCFV61	180	981914	1 - 1221	15 - 1235	<p>             BG033901, BG252785, BE543055, AV722449, AV702154, AA628439, BF668342, BF692352, AI768330, BE894056, AI743632, AV694035, BF437204, BE856844, AW304160, AI337885, AI924514, AA837493, AA426551, AI745073, AI963737, AW821215, BG038671, BE509387, AI242029, BE503709, AI942469, AA160524, AI160326, AV725848, AI912616, AA890454, W95882, AA824442, AW518009, AI701598, AI273641, N93250, AA287410, AA418905, AW449609, AA160567, AA703542, BE671219, BG105483, AA779451, AA111935, BE669882, N32408, AI332415, W17057, W25108, AA810170, AI382034, AI499772, AI589724, AI720736, N56828, AI123003, W95918, AW022386, AA083712, AI808404, AA77136, AI806090, AW965046, BG105254, N89643, AI467879, AI247234, AI784644, AA725064, AA343169, AA569724, AA694506, AI698201, BE542567, AI244592, BF218794, AA287358, D80112, AV973029, AI206216, AW965048, AW889223, BE843684, BE843522,           </p>

HPDWN44	181	981956	1 - 934	15 - 948	and AK000541.
					<p>BE742303, BE741533, BE740369, AI633237, BE563341, BE563326, BE612816, BF035914, BE800068, BE63212, BF665918, BE880096, BF970136, BE880701, AL529261, BF037170, BE315481, BF316680, AI017752, BE896668, AA431844, AA628903, BE880590, AV710748, AI525834, AV716869, AV733974, BE567737, BF674943, AV713981, AI979057, BF698464, AI529260, AW514732, BF033091, BF674985, AV711087, AV716715, BF540803, BF675525, AV713390, AI935983, BF679768, AA075421, BE613381, AI156298, BF673731, AW088688, BE389957, AV735167, BE389745, AA187073, AW474971, AV740643, BF691116, AI133571, BF195619, AI684301, BF677505, AL525452, BE042822, BE709657, AW936512, AW474519, AA992934, AW189041, BE042854, AI984117, BE276272, BE393478, AW474473, BE388363, AW131622, AV734097, AW196629, AI913944, AA427596, AA187024, N30130, BF217503, D82271, AI191868, BG235916, N39749, AI923021, BG112356, AV713265, AA075422, BG259987, AW404378, BE813241, BE813177, AW149049, AW369486, AV726476, AW369495, AA442647, AA669065, AI367852, AI633284, AU132643, AA081139, AI554354, AW951432, AI560878, N25849, AI416993, BE176663, AW074176, AA446705, AA496549, AW512858, BF094963, AW991489, AW991644, BE813140, AA315748, AA878888, N23559, W19707, AA729416, AA621292, BE567961, N36654, AA069715, BE568443, AA493626, AA069692, AW938005, AI187152, BF732743, BE176346, AI185034, AW166402, AA593797, AW385485, AA186648, AW021630, AA437347, AI221791, AA630449, AW937966, AA081278, BE122891, AA436888, BG167398, AA156984, AI312688, BE875189, AA316034, AA316517, AA479768, AA181039, AV733234, W52260, BE176396, BG012035, AV750759, AW264168, N24368, AA631420, AI923459, AW363902, AV703750, AI198050, R98410, BE179786, N59644, AW069390, AL047606, N44880, AI686995, AI090375, AI525651, AW796539, AV654997, AA187522, AA229717, AA429684, H16005, AW994708, N35742, AA628994, AA630441, AA977956, AW798571, AA847636, AI074223, AI034134, AA583504, AA782407, AI291901, BE710000, AV711820, N77857, AA993826, BE536583, AI568185, AI434356, AA169685, H53260, W05819, AI367001, AA757584, AA156678, AA317301, AW582891, N42163, AW378113, AA230074, AA335935, AV651342, AI719389, AV712994, AW378105, BE716145, AA335859, BE707628, AW378118, AA281403, AI312689, AA581804, AA432128, AA335879, AA890245, N35687, AI674105, T50033, AI085540, BE697023, C17051, AA384518, AW378101, T93581, AA912450, AA361889, BE840484, BE169354, BE707639, AA446578, N44791, AI687083, H85400, AA923554, BF091266, BE840494, T86063, AA641500, R66319, AC005479, X67698, U25748, AI18921, X78134, S77411, X85799, AL133076, AL122101, AL133655, AL133020, AL133053, AL133074, AL133049, AX040958, AX041002, AX040974, U30290, E13998, AR015970, M37278, AX030435, AX015526, AF126531, Z69719, AF002985, AR055519, AR034821, S56141, T92154, T93222, T94671, T89488, T89660, T83699, T85048, R01007, R25764, R33756, R39758, R62496, R68141,</p>

HOVJY54	182	982032	1 - 1118	15 - 1132	R74261, H15768, H42468, H42681, H43449, H60096, H69969, H71589, H85394, H98245, N28549, N40132, N40844, N54906, N78197, N99645, W32944, W38819, W46910, W56106, AA025797, AA031691, AA035536, AA130026, AA149910, AA157483, AA281356, AA532481, AA603556, AA610276, AA617732, AA627954, AA837359, N85557, AA431114, AA708116, AA725139, AA845939, T11351, A1244072, A1308158, A1220771, A1632782, A1859690, A1811046, A1950900, A2025993, and A2055299.
					AL536886, AL519771, BE903122, BE906714, BF981167, AL529998, BF980868, BG110444, BE906350, BG026745, BE733132, BG118469, BE908645, BE281012, BF527761, AL529999, BF204049, BF527895, BF338699, BF527959, BE896386, BF346362, BG179270, AW373882, BG121683, BE902906, BF339518, BF528481, BE795781, BE797253, BE264544, BE793598, BE799039, BE395716, BE904642, BE798297, BF129057, BE909217, BE797464, BE791245, BE798589, BF317485, AW577397, BE259895, BF337918, BE798842, A1366141, BF345330, BE793570, BE254266, BF689031, BE387799, W48799, AW249723, BE736728, A121648, BF915406, W79098, BF058087, BF434845, BE266716, AW245243, BE275433, AW965510, A1420864, BE501218, AW958156, N30494, AW166500, BE274757, BE362577, AA523509, W74502, A1421445, BE274734, BE542936, AA076659, AA309806, AA602391, AA947286, BG056181, AW148931, BF827786, C14268, N99361, A1367349, BE266342, N59225, AA335673, AW518636, BF750898, A120945, AW137008, A1936982, A1916893, AA335414, AA336127, BF338034, A1769470, A1337000, AW206563, W31030, A1419527, AA371822, AW006577, N98776, AA335239, N76692, BE645990, C14269, A1572122, A1368200, AA641497, A1634762, BE150214, A1684498, AA827390, A1217398, BE150209, W49625, A1081813, AW206959, AW607363, BE743774, AA725340, AA079566, A1672387, N34422, A1766926, AA478173, N48657, T11147, A1365401, BF221855, A1950175, A1813446, BE466923, A1382536, A1382559, AA659150, A1420810, AW900866, AA357437, A1565511, AA478017, A1800023, BE673470, AW615779, AA773507, A1362447, A1242987, AW183593, BE673583, A1399691, A1738446, A1243140, A1659508, H16643, BF438348, A1651868, A1805041, A1568339, A1823968, AW451053, AW137813, A1927588, AA631086, A1699620, AA077819, and L07392.
HLDOG74	183	982042	1 - 870	15 - 884	BE741661, BE733571, BF685462, BF984053, BE745150, AV686105, BE792465, BE901550, BE515104, BE884515, BG033955, A1052336, BE312803, BG178966, BF794342, BG036584, BE344000, BE746597, BF337890, BF038967, BE264172, A1831045, BE874094, BE910663, BE733667, BE264374, AW170205, BE544180, BF127998, A1309846, BE539160, AW160727, BE787749, BE787345, BE271779, BF667331, BG257671, AW157143, AW440255, BF205294, BF183127, AW583332, BE784901, BF671774, BF115955, A1857442, AW583701, A1560800, AA582176, BF244048, A1824142, AA485962, AW025617, AW516053, BF204148, AW439339, BE786757, BF667242, BE278628, BF130358, BF030011, AA854126, BF219377, BE271039, BE855730, AW513598, BE297318, AW439387, AW162229, BE297859.

BE280579, BF979190, BF245667, AW118054, AA635192, AW169142, AW674748, BF692567, BE281362, BE019807, AA551363, AI446101, AA617816, AA661621, AW950636, AW515901, AW166234, AW516869, AW173721, AA147816, BF213463, AI624267, BF668293, AA843831, AA491461, BE281598, AA046960, AW080229, BE207118, BE383593, BE269269, BE301062, AA284529, BF033039, AA147964, AA779189, AA886801, AU151184, BE541264, AW905878, AA709317, BF185131, T27878, AA489885, AA046940, AI200718, BE501607, AA977837, AA287072, BE295551, AA308390, AW163112, BF687680, AW675350, AA917888, AA315960, AI149590, AA599391, BF697377, BF218545, AA662287, AA009788, AI292782, AV744141, AA676677, AA314717, AA961410, AI878965, AA281634, AI688201, BF698890, AA954211, AI362751, AA929069, BF196313, AI193083, BE207789, AV736143, AI083792, AA772752, AA659107, AA983589, AV742172, AI138509, BF184787, AI040249, AW732855, AI191696, N92863, AI151496, AA687717, AI299551, AA070997, AA857870, AA503718, AV735528, AI190930, BF090320, AW058118, BE206366, AA070618, AA503128, AW407757, AA047377, AV743448, BF916297, AA128677, AI056932, AA503135, AA503108, AI393887, N74980, AA773467, AA855028, AA493807, AA650564, AA559223, AA190701, R99319, AA483970, BF229552, AV742823, AA658476, AV741392, AA307151, AI826883, F36699, AA489572, W32721, AI143806, AA190460, AA812381, BF104071, T79922, AA281695, AI194047, AA502951, AA676762, F29670, F36691, AI634447, AW005735, AA856710, BF942352, AA594442, AV743031, AV735719, H96947, AV739957, AI272958, R57018, W20469, AA191403, BG119796, AI274572, AA191288, AA740554, F26383, AA009897, R99413, R05797, AI748989, AA595773, AA282515, BF753031, F26620, F01244, AA128767, AA320093, AA343244, BF035539, R32398, AA374363, AI611288, AA374425, BF560820, AW473036, R32399, D29012, X61971, D10754, UI3393, UI3394, E05950, AL050277, ALI35933, AF031147, AL357195, AB028451, X63574, AF119336, AF213396, U91329, A59344, AK025015, AF260566, AK027221, AL133640, U49434, AC020910, AY004290, AF070632, AL050129, AX014095, AL353999, AK026613, AL359620, Y08864, AL137478, AK000432, AK026164, AL137665, AF116610, AL133624, AF126488, AL096744, AL133608, AF019298, AR038854, AL117644, Z98036, AL157433, U77594, AL137526, AL110197, AF205861, AI2297, AL133623, AC009364, AC018643, S77771, AB044545, AC004227, AF003737, AK026647, AL133081, E12579, AK026659, AK025431, U87620, AK025761, X97332, AK000614, E12580, AX015416, AK024978, AL133112, AC018639, X53777, AF225424, AL161953, AK000212, AF130110, E01614, E13364, AF057300, AF057299, AC025226, AC007869, AB049892, A57389, AK026480, AK026518, T57661, T59327, T87448, R23859, R26674, H03115, W05680, W25589, AA025424, AA055954, AA057036, AA190760, AA910572, C00011, AA092293, AA093654, AA652601, I31986, AI559731, AI825361, AI885878, and AW024506.					
HE8MM52	184	982197	1 - 2789	15 - 2803	AV651781, AW965446, AI623305, BG103418, AV695144, AW500557, AI962601, AI816919,

						<p>AI809660, BG180470, BF238787, BE958617, AI453203, AI686764, AJ051938, AW008755, AI671303, AV696246, BF574073, AI624404, AA599814, AI862650, AV752796, AW088764, N49595, AI373326, N46907, AA630029, AI076703, R52979, AA682606, N66860, AW504901, AI637810, AI804504, AA635074, AI216350, AA761707, AW975470, R61617, BE144059, H04056, R13437, AV655299, AA806300, AI565337, AV690970, AV683075, AV661993, F05802, F05782, AA688425, BE093642, T68530, R60949, BF216998, T98033, N93069, AA332693, T98114, BE969752, AI377881, AI927670, W24722, AI767039, F08707, AV682040, AV681756, AV724929, AL119139, AV661953, AW805670, AI670931, AW276928, AI913173, AC026439, and F08205.</p>
HJBCC19	185	982465	1 - 1554	15 - 1568		<p>AI529581, BF793008, AW968792, AW958616, AI005133, Z78392, AW665074, AW572797, BE910519, AA311683, AA227581, AI961773, BF311030, AI529580, AA490975, AA580009, BE857081, H15751, W88486, BE011902, BE011961, AI669828, AA378108, AA203400, AA215739, AW297449, BF512524, N34147, and AK000516.</p>
HODAA93	186	982618	1 - 1010	15 - 1024		<p>AI0134734, AI921858, BG035733, AW503819, AW502845, AW393515, BE463976, BF085697, AW590049, AW025827, BF927064, M78377, AU135081, AW503556, AW999737, AF002223, U58032, AK001816, AJ224979, AF057354, AF073997, AF125314, and AK023451.</p>
HSPS174	187	982764	1 - 1578	15 - 1592		<p>AU118627, BE614379, BG109394, AI051622, BF035128, BE745111, BE747176, AU133917, AA977180, AI828930, AU133984, BE906377, AI928364, AI189753, BE621857, BE904639, BE907348, BE788794, BE879963, AI819390, AI445461, BG167065, BE790436, BG119322, AI453743, BE619041, BE621186, BE620997, BE439796, AI983655, BE908365, AI685095, BE908977, BE884393, BE613669, BE789335, BE879041, AU135866, AI633575, BF037650, BE910282, BE906666, AI564644, BE547180, BG122252, BE737005, AI925607, BE905184, BE785244, BF036140, BE617891, BE906281, AW071625, AI591358, BE906618, AI720939, AI804422, AW080238, AI250777, AI678712, AW338147, BE392486, BE881236, AI865838, AI963432, BE874626, AW192593, BF126211, BE897209, BE974032, AW383999, BE548372, AW510672, BE546656, BG113740, BF105867, AI262930, AW372926, BF037109, AU137549, BE904461, AI694111, BE548097, BE785027, AI346835, BE877056, AI927769, AA292956, AW629505, AW262737, BE879732, AI161312, BF791201, BE044033, BF790033, BG165112, AI696905, AW513200, AW008570, AW651691, AI871950, BG122807, AI377596, BF674901, AA083510, AI597801, BF691383, BE617437, AW629109, AI093510, BF132064, BF382972, BF222820, BE543834, BF184069, BF573710, AI240988, BE867124, BF690916, BF195127, BF593608, BF182976, BF184281, BE905927, BE501957, BE880450, AI911921, BF106087, AI424384, AI591386, BF215412, AW820297, BF131142, BF247995, AV726627, BF102675, AA479712, BF818868, AA877242, AA706057, AA315188, AW961886, AI148698, AI677934, BE564028, AV732963, BF978564, BG169978, AW583735, AA948565, W52095, BE619741, BE961220, BF031297, AV654555, AA524526, BF687984, BE385852, BF102872, BF246934, AA088439, BF979244, AA843108, AI248307, BE156265, AW015724, AW572531, BF690647,</p>



HCEHZ42	188	983008	1 - 3628	15 - 3642	<p>BF670998, AA889018, BG118773, BF687915, AA479834, AA626058, BF571504, A1285092, A1591384, W25540, AW205937, BE349186, C17732, AW959385, BE971477, A1027865, AA733014, A1955858, BF572812, A1492554, AA844898, AA452515, BF244568, AA453027, BE219784, BF126097, A1671727, BF184176, BF247378, AW779725, AA129575, AA903050, A1567995, AA404570, A1470033, BF576011, C17963, BE825569, AA088544, BE543766, AA662517, AA699452, AA723200, AA043217, A1075878, BE961124, BF057147, BF676177, AA147228, W52847, A1990245, BF673172, BE963891, AW673152, W38161, AA627686, BF575906, AA113196, BE182595, A1799814, A1333170, T66110, A1972739, AA190873, A1859160, A1446615, W45410, BE182608, BE619182, A1990827, BE327120, AA182640, BF678404, A1298935, AW085158, AW471421, BF243031, BF570900, AA682601, AW103470, A1242230, BE044134, I34297, U34276, AK023364, D16854, X75684, D86467, T55840, T65026, T85378, T97664, R21752, R21800, R38028, R38114, R79190, R79933, H27252, H28594, H38179, H52504, H61762, H64985, H64984, H80983, H64985, W19298, W60075, W73887, AA010631, AA011222, AA035067, AA035576, AA037696, AA037722, AA043216, AA085492, AA129574, AA136658, AA136645, AA148284, AA155661, AA157944, AA190427, AA190472, AA190966, AA191414, AA192519, AA250778, AA502832, AA581093, AA603586, AA837326, AA962397, AA988297, W60032, C05782, C06111, C06123, C06365, C17476, C17504, C16377, C18304, AA649494, AA291465, AA411100, AA421678, D11921, AA478271, AA478328, AA487893, AA486595, AA719173, AA722206, AA724739, AA757735, AA989662, A1032569, A1061065, T10930, Z25898, Z28771, AA953883, F09579, A1244845, A1245632, A1246953, A1249545, A1251817, A1254320, A1261359, A1270788, A1270830, A1275372, A1306933, A1309876, A1334860, A1340796, A1348877, A1363829, A1453453, A1446740, A1432033, A1472527, A1468237, A1500576, A1565439, A1582462, A1224222, A1189366, A1650338, A1349390, A1589264, A1621320, A1686240, A1692846, A1693030, A1738844, A1745717, A1769516, A1798415, A1798502, A1800106, A1823466, A1865912, A1872628, A1918453, A1918523, A1950693, A1927217, A1972899, A1985583, AW016166, AW088968, AW197954, AW242958, AW275048, AW191997, AW194272, and AW300456.</p>
					<p>AL537881, AL517309, BE735051, BE901285, BE616892, BE735353, BE793731, BE733509, BE545486, AL517310, A1745249, BE734335, BF526598, BE796000, BE796507, BE798600, BE886723, BE617349, BE734009, BE280110, BE901683, BE76201, BE891303, BF342463, BE729254, BE910567, BE884594, BG255411, BE279129, BE888923, BG031148, BE537150, AA604400, BE734392, AW964738, BE259025, AW327313, BE616860, AW385802, BF108767, BE903733, BE349111, BE257437, BE328784, AW156910, BF060707, AW246117, BE263626, BE392648, A1620896, BE252755, AW732968, AA398262, AW778939, BE349863, BF436950, BF964072, BE799126, BE962236, BE781464, AA602489, A1566556, BF954806, AW249583, A1160402, A1809859, BF766680, H21144, H51462, BE616366, BG257069,</p>

					AI608637, W37225, AW103894, AA984583, AI860074, AI251822, BF964921, H50198, H50199, AI637978, AW236505, AI553932, AA308870, AI341897, W37565, AI571251, F26897, AA922512, H38486, F34532, BG152624, H09117, R24306, F02992, R44903, AI624869, H29803, H46459, H47000, BE277457, AI932959, AW244024, T23597, AI814804, AA707234, AW385702, F13335, AI702387, BE834031, H44917, R40088, AI003681, AA548650, T78815, AA523188, F04394, T40327, AI332972, AI363841, Z43697, BE559682, H42170, AI678524, AW105674, BE747069, T41190, H51420, AI283350, BG014941, AA729769, H38475, AA889494, R12936, H09467, AI277180, C02213, H38470, AW844667, F13332, AA779046, AL537882, BE302833, BF764692, BG112124, H21101, BF333843, AI653323, BF949218, AA399433, H42992, BE172552, BF766013, BF948977, BE939200, AI95921, AF062360, BF514170, BE771818, I76198, AI238509, AK026112, AJ671155, and AW003308.
HDPVU15	189	983592	1 - 1393	15 - 1407	AL526272, AL525155, AL522999, BF966555, AL526230, AL523065, AI608975, AL525156, AI356555, BE738267, AL522957, BF940042, AU132734, BG036876, BF207755, BE866533, BE999964, BF216980, BE567528, BF210168, AW006213, AA506981, BE748710, BF238741, BE565646, BE567849, BF028372, AI097642, BE671753, BF669347, AA481159, AI365242, BE263776, AW613149, BF207815, BF062845, BF207601, BF184549, BF029492, BE748034, AA600213, AA570018, BF677978, AI380165, AW474849, BF029410, BF212774, AW327326, BF242826, BE782106, AI189808, BF673083, BE958173, BF691558, AW327647, BF242098, W40404, BF183977, BE566862, AA521171, AI824172, BF701792, BE564186, BE737955, AI630337, AI276975, BE762520, BF183896, BE865656, AI078467, AA706141, AL047101, BE502602, BF207203, F08084, BF241687, BF246011, AI638395, AA308891, AA971116, AI076444, BF575292, W92066, AI370021, H54752, AW083735, AA834180, AI220183, AW952287, BF745131, BE563907, BF907533, R93244, BF431085, AA834180, AI220183, BF754428, F04320, BE566548, BF381304, AW750302, AA193557, BE075259, AW378464, AA847005, BF213891, AV688842, H54751, N93924, AV687331, BF745923, BF798270, BF214281, AA290913, BF209678, BF381625, AV606584, AW384533, AV699554, AA301337, AL042687, AA569904, AI189079, R57070, N85824, AA828789, AW979044, W92049, and M87339.
HTSGC28	190	984008	1 - 409	15 - 423	AW629796, BE907694, AI879238, BF125522, BG165445, AI991040, BE265179, AA306760, BE386666, BG033049, BF569429, BE616679, BE961094, AV752683, AA554831, AI904451, BF345953, AI563938, AA421977, AI908006, AA310481, C04874, AA325475, AA641261, C04859, BE298529, AI627256, BE876461, BE907784, C03419, AW085607, AI879639, AI907999, AI828997, AW800145, AA702425, AW834911, AW996129, AI348015, AA331368, AV726768, AA633265, AI078778, BE965867, AA477032, BF128018, BE698338, AI246215, AV704488, BE905105, AI356116, BF981367, AC009470, AX011754, X96506, and U41843.
HDABW50	191	984168	1 - 510	15 - 524	AW160956, BG112870, AA181146, AL533095, BE299316, BF206076, AL518638, BG025731,

HAQBH11	192	985043	1 - 1283	15 - 1297	<p>BG027680, BE019254, BF797145, AW160779, AV701299, AL533158, BE254796, BF128863, BE267759, BE618134, BE397759, BF183232, BG034440, BF982019, BG251910, BF797411, AA306380, BE898025, BE697092, BE304609, BE280212, AL533932, BE256616, BE888620, BE257413, BF972257, BF305365, BF303592, AV701256, BE777834, BE785075, AA361278, BE259295, BF033090, BE872617, AL536483, AA147916, BG032975, BG109112, BE616894, Z21306, BF062245, BG170907, BE466819, AU077114, BE542087, BF204786, AA295792, Z20331, AA311755, AA370388, AA381537, BF568489, BE799154, AC027269, X52882, D90344, M12899, A45915, D10606, S46763, M34665, D90345, AF143497, and AF143496.</p> <p>BG033206, BF342428, BE512834, AL048282, AI879320, BE585361, BF795509, AU151801, BG261226, BG034970, AA744603, AW665535, BE251894, BF109751, AI554548, AA582428, BG031393, AI741757, BE676082, AI879319, AA488479, AW248852, AW406490, BE256937, AL047958, AI004611, AA037421, AA774634, N93305, AA430402, AW249274, AI400297, AI811153, AV722095, AI741768, BF125670, AL047959, AI097609, AI348358, AI21281, AI929211, AI928959, BG059980, AA430649, AI189422, AA429252, N24950, AV763462, BF821350, W84606, W79170, AI807903, BE675976, AA156930, AA156806, AW957268, AL520686, AA918136, BE350569, AI436788, BE465495, AI914409, AA731701, AW007162, AI572971, AI127872, AI086033, AI304732, AI304534, AI304332, AI436606, AI148551, AI273244, W25157, AW732151, AI016547, AI334031, AW245121, AA195312, AA680089, AA706611, AA905742, AA857129, AI935026, W74366, AI475996, AI077774, AI858890, BE618488, AA613374, AI424179, AI572567, BE302299, N37064, AI469806, AA648333, AI310080, AA854601, AA922513, AW469487, AI276775, AW978876, AA904130, BE677872, AA703663, AI832558, AA195123, AW401707, AL520541, F20916, AI434634, AI167203, AA554680, AI015217, AA716603, AI919489, AI400655, AI369295, BF204499, AI096816, AW291743, AI708380, AW510583, AI073623, AI864517, BG235989, AW957984, BF432700, BG027523, AL048281, AI473968, AI142442, H21173, AA010920, AA628365, AA181912, AA680368, W68434, AA535548, AW193651, AA666297, AW970399, AI567256, N33827, AA723469, W88714, AI129518, W02166, AA927718, BF436216, AW129400, BE903621, BE894137, AI937756, BE255000, AI439069, AW085013, AL528761, AA291158, BE618888, AL520685, H21172, AA701980, W88713, AA745783, R60749, BF438994, BE379605, AI266717, AA021053, BF220074, AA352112, AW151019, BE618705, H62602, BG122824, AI985732, BE619838, AA576306, N41653, AA777363, AA329553, AI536627, BE619636, AA364327, BE619554, AA523080, AI968125, AI362972, R16938, W68552, AW082162, H77490, W60381, AW888780, AI239605, H00750, BE778855, BF002315, AI419366, F37003, AA281392, BE252322, R55029, BE539494, AI264447, F33844, BE622622, AV758923, AA927434, AI300497, H95107, H19581, AA995088, AV739146, AL522112, AI254228, AA909383, BE783148, BF964544, AI933194, BE619936, AW206638, BE386528, N67439, AA032085, AV738905, AA906240, W32502, BF664072, N80233, BG026963, BF943594,</p>
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HMVAW42	193	985280	1 - 1033	15 - 1047	N88679, W38324, AV739446, BF943595, H77489, BE619403, BF797152, F13662, AV758240, T85967, AA356672, AA827089, AV738715, AA886406, W60290, BE880331, AI565666, AC004148, AF275902, L04636, M69039, X75913, AR001488, AF238300, A7001101, AJ001102, T75519, T79324, T97266, R00559, R43811, R43811, H19498, W35357, W84587, AA195016, AA256539, AA429036, AA541335, AA886821, N46376, AA090596, AA096370, AA495533, AI350333, AI432739, AI701659, AI866522, AI874327, and AV272778.
HAGDF03	194	985323	1 - 886	15 - 900	BE882789, H18418, H18419, BF983783, T98073, BF799367, AK024419, AL049742, D86997, D88269, AC007050, AC002041, and AC007882.
HOPK129	195	985401	1 - 656	15 - 670	BE743574, BE747360, BF037152, BF037322, BF185217, BF034907, BF035464, BE735974, BE735948, BG177694, AA912117, AI809647, AA904850, BE715907, AW167552, AI146565, BE932773, AA074391, BE932728, AA905581, BF057950, AW197091, BF818794, AW582452, AW362760, AW362834, BE736338, X76029, AF203444, M94355, and AF222762.
					AW967189, BF568535, BE876991, BE222939, AA504246, BG249370, BG255913, BF308620, AW328087, BF034851, AW328088, BE793300, BE905639, AI735694, AI095336, BE386578, AA614065, AA569837, AW196810, AA608885, AI653486, AA613913, AI924658, AA613925, AA554728, AI560961, AA719377, AA469078, AA830299, BF038609, AA203548, BG177899, AA614181, AI858312, AA552154, AI200336, AA885917, BE620103, AV754386, AI031613, BE784692, AA081285, AW166322, BE042784, BE791140, BE964673, AA911010, BE048169, BF568842, AA741206, AA081284, AI126452, AA155948, AI138974, AI139507, AA890569, AV751934, BF125381, AI371201, BF125620, AI205847, AA826559, BE714318, AV726932, AI355171, AI191488, AI311103, AA974366, AA632296, AI581287, W19605, BF125603, AI369911, AI052549, AI363011, AW192081, AA724119, AI110319, AA757027, AI492635, AI310711, W80967, AA828873, AA716667, N70808, W35100, AW190632, N93842, N94928, AW206213, AA804201, AW205535, BF222360, AA045330, W40298, AA186411, AA583415, AI299768, N94313, W47097, AI310460, AV739579, BG168459, AI185445, F21331, AA045388, AA602057, N69883, AW263722, AI874123, AA300062, AI133096, AA308875, BE766731, AA188134, W01415, AI192988, AI002735, AI863303, H73006, BE175080, AW603296, AW883548, AV742934, F00800, AI749433, F36662, W80968, F31017, AA303960, AA902606, AA657819, BF214015, AW883024, AA483632, F22498, BE694643, AW800284, BF820314, AA844336, BE702621, AI206672, R48509, AI445725, AI358193, BE646027, AA599755, BF752265, T90159, AV743096, T90057, F26867, AW882945, AW883656, AW375553, T35390, R35896, BF477469, BE085557, F29236, R48510, BF083095, R35895, N44815, N88653, F29357, AA193068, AW883822, N90560, N57064, D25765, AW059723, W20367, C20592, AW883811, AI253621, R29399, AA283439, BF213077, N64284, AW800074, AW882794, AI000414, AW883496, AW883108, AW883699, R57063, AI802283, N98855, AA155903, BE069170, AW385521, AW883325, AW364453, AI332761, AW820144, AW819764, AW819769, AW606771, BE766667, AW883216, AW819735.

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 AV756770, AV757984, AV755218, AV757963, AV755484, AV755973, BF869949,  
 AV758806, AV757827, AV756566, AV755595, AV755249, AV757996, AV757797,  
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 U88966, AR087170, AK000250, AL049283, AF119859, AK027204, AF130110, U42766,  
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 I09499, AX010492, AF321617, X83508, D83032, AF114784, AF314091, AF113677, Y11254,  
 AK026353, Y10936, AK026626, AF130105, AF218034, E07108, AF130099, AF262032,  
 AL133016, AF125948, AL359620, A93016, I00734, I89934, AF130104, AK027081,  
 AL110196, AK026383, X70685, Z72491, AK000618, AF111849, AK026630, E00617, E00717,  
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 AF119894, AL122049, AF118094, AB048953, L13297, AF119878, AB050410, AB048913,  
 I33392, AJ299431, AL049382, AL137271, AK025414, and R50471.

HAJCA11	196	985580	1 - 1282	15 - 1296	AU132390, AU124559, BE900238, BE732404, AU129885, BE080187, BE926773, BG114544, AW500118, BE537542, AU131408, BE789187, BF922033, BE281277, BF089292, BF083954, BE731775, AU128452, AW875091, N87006, N86017, BE295990, AU133348, AW875092, BE207290, BG027252, BE085014, BF242268, AC006509, A58904, U28946, U54777, U73735, D89640, and D89646.
HWAHA11	197	986078	1 - 1131	15 - 1145	AL528672, AL528671, BE740519, BG179875, BE876837, BE409722, BF125146, BE384347, BE905434, AA480075, BE736786, BE386983, BE385086, A1708432, BE909934, AA777273, BF901579, AA455206, AA362335, AA969968, AA427548, BE275509, AW104489, A1799353, AA421632, A1078240, AA427707, AW955562, AA454864, A1310388, BE743523, AW170140, AW089692, A1129255, AA903911, AA362336, BF813903, R72751, R72760, AA554328, AA483784, R48745, A1197789, AA304308, AW591924, AA320293, AA491393, BF541788, AA360465, AW839762, BF818256, BE622335, AA143722, AW591933, BF927574, BE071386, BF754668, BE622797, BE071396, BE967257, BE243667, BE071302, D20583, BE729081, AX041029, and AF188504.
HSAMI43	198	986158	1 - 1595	15 - 1609	AU149573, BF034032, BE278549, BE731160, BF034631, AW236853, BF084841, AU126259, A1761782, AU151440, AU149075, BF699903, AU150909, BE542926, AL527731, BE539229, A1628901, AU150578, AU152956, A1354451, AW386462, AW386546, AW386459, AW386633, AW386541, AW386540, AW386674, AW172296, AW386290, AA496720, AL527730, AW386399, AW386293, AW386545, AW386675, AA827175, BF109445, AA766675, BF572742, BF700363, AW673859, A1039522, BF904724, A1954042, AW386400, BE538430, BE783497, BF361388, BE535955, AW386676, AA496777, AA332056, AW386463, AW401913, AU125409, BF349062, AW386593, AW386404, AU119856, AW794691, BF361390, A1630067, AW468663, AU126032, AW610565, AW605675, BE816416, AA969139, AA625769, AA948540, BE816439, A1829160, BE833448, AW386548, BE011481, BE011489, BE816391, BF767633, A1798526, BE816420, D59324, AW674070, C21288, A1254727, A1648699, AL040011, A1445620, A1927233, AL040241, A1887163, AW082532, BE964614, AW076124, AW088560, A1471429, BF921295, AW089275, A1721755, A1590375, AW051088, A1445256, AL043152, A1677797, A1445812, A1783792, BE393784, A1513729, BE964614, AW076124, AW088560, A1471429, BF921295, AW089275, A1721755, A1590375, A1972170, AL041150, A1368816, A1586931, BE883591, BE084795, A1630877, BG122101, BG251076, A1538885, A1733682, A1628284, BF963877, BE620438, A1758445, AL046944, A1249389, A1242246, AW163834, AL119791, A1357599, AW078767, AW827102, A1860830, A1886055, A1301710, A1963846, AW089405, A17149221, A1570966, A1571699, A1433611, AW025279, A1582240, A1500061, BG032919, A1453248, A1620639, A1434242, A1750365, A1917994, AA464646, F32537, A1886123, BG107844, AA838230, A1689614, A1812015, BF033757, BF793462, A1241741, BG109164, BG110577, A1439452, A1537677, A1712981, A1679550, AW104141, BF814449, A1929108, A1950877, A1682121, A1686589, A166937, BE047691, A1818358, A1566430, AW079432, BE879108, A1184903, A1756794, A1623682,

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HNFTJH73	199	986165	1 - 2951	15 - 2965	AB007812, AF026124, AK025113, S69407, AL133565, AL389982, A03736, and AF019298. AL135307, AV05200, BG113555, BE893152, AU140178, BE275933, BE894324, AI034515, AA716409, BF060791, BE299687, AI677871, AW954275, N29134, AI808415, AI621031, AA382436, AI923237, BG179963, AA700347, AA463830, AA825773, BE393064, BF219349, AU158345, AI831482, BE893515, AI829698, AI354807, AI041945, BE208699, AA831207, HI4671, AA906989, AA460265, N29562, AA679105, H07010, N29294, AA664218, BF438401, N26851, N20226, N21171, R66676, AI47747, BE567629, R53048, AI969497, AA933469, AA976405, AW206458, AW373029, AW503770, BE407841, AA224344, BF111112, Z44255, AA878064, H54297, Z44642, BG006488, AA303163, H05459, N42173, AI206338, AA219130, AA503077, T29413, BE551030, AI805791, R53135, H54374, BF110041, AI970159, R67394, AA384950, R37379, H68011, R73097, AI081796, R68165, BE302777, AW411287, BG119446, AA918529, BE314959, BF988929, AA369756, AA295590, AI927476, RI4630, Z39579, R73098, AA960999, H60931, BF212051, F01802, F03399, R13469, AI565718, BF976822, H10504, AA137020, AW590683, AI652433, F03681, BF571534, C15517, F05530, AA136924, AA369755, T49871, AA341117, H60845, W93139, AA010506, BF344411, H67688, AI253282, AI825058, T49872, AW798336, AI185461, AA026121, BF701801, AA026205, AA722157, H14581, AA301189, AW411286, BE220882, R52710, BF700338, AW084882, AA219513, AA932778, N39964, X96375, X76184, AY004174, AF075706, AF075708, E06025, E06024, D12765, U35622, U18018, X63190, AF095890, X96377, and X96376.
	200	986328	1 - 738	15 - 752	AI631653, AW514704, AI683239, AI762458, BE344805, AI952420, AI675981, AI926932, BE536677, H48459, AA780363, R99152, AI049877, AA626759, AI031672, D80008, AP001712, AP000466, AL009051, AC005156, AC006006, AC002115, AC008745, AL121825, U91323, AC025030, AL133244, AL161938, AC007883, AP001630, AC016612, AP001748, AC005531, AC004386, AC002418, AL031597, AC005840, AL159970, AC008747, AL080242, AC002978, and AL031651.
HSUAA20	201	986744	1 - 2257	15 - 2271	AUI25631, AUI22638, AUI24434, AUI19564, AL521523, BG108961, AL523942, BG035161, BG251944, BG036436, BF796027, AW853573, BE898956, BG256538, BG119012, BF971387, BF038129, BF665538, BE178302, AI589375, BE292972, BE897915, AW853577, BF983057, BE178464, AI720743, BE743787, BF698180, AA576889, BF344035, BE074977, BG120570, BE074978, BE542431, AUI25797, BE074983, BE927446, BF028723, AW664254, AI924017, AA622618, BF699259, AW853635, BF664182, BE773949, AV734594, BE674801, AA780625, BE764622, AW602743, BF751549, BE927448, BE773962, AI632995, AW602746, AI831228, AA127994, AA632633, BE675358, BE853875, AA830571, AW517313, AA460805, AW513297, W80991, BG029093, AA741398, BF082772, AI571048, AI141113, AA946941, AI984475, BF432650, AA652978, AI672687, AI190250, AI678469, AI092182, AA845782, BE927450, AI936315, BF334264, AI075287, BE932015, AL523941, AI597847, W81093.



HSPAD08	202	986767	1 - 1213	15 - 1227						<p>AW104773, BG056516, BF740090, BE251299, BF919259, BE773964, AU128580, A1884832, BE932029, BE171973, A1523288, N70538, AW886360, N69034, BF361037, AW071518, AL121348, BF945741, AW801680, BE927444, AA143051, AW801696, W68118, AL120946, BF904452, BF955068, AA807897, BE245676, BE086998, AA765885, AA535606, BE927436, BE778072, BF093541, AA076360, BF373538, W67691, AA663749, A1052509, W27647, AA143250, W00664, BG108992, H83325, AA676456, N93793, BF839013, W05851, AW651747, BF349236, AL521526, AW853630, AA177087, F06727, BF093544, BF229679, A1174288, BF397361, Z39753, AW351657, A1907303, W04331, BF760988, N95782, BF088904, A1253764, BE940308, AW801632, AW021876, AW799691, T79592, BE773988, BE773978, W28688, N67074, AA627487, N92965, C00490, BE773999, A1557470, BF740748, BF743310, T79674, T80951, AA629900, A1695168, AW009552, BE773994, W24896, T87240, BE816249, BE259711, AA368874, AA248274, H56269, AA908719, BF088933, AW403744, BE773973, T29748, W21422, BE927447, AW407237, AW073348, T05740, T24051, T87157, AW361232, AA056364, N74166, BE773977, BF356669, BE175576, BE773987, BE773997, BE773995, W68233, BF088932, AW853634, AA991598, H04126, A127165, BF740840, BF364217, BE773947, BE177132, N84336, AW753242, BF832460, BE773984, BE810833, BF945806, BE841985, BE696002, T25762, BE931899, and M63488.</p> <p>AW193875, A1859472, AW512687, A1298658, A1683140, AW510341, AW189037, AA075515, A1352215, AA293804, A1634702, A1972816, AA451904, A1204509, BF111273, A1680769, A1206090, AW170346, AW102571, A1491895, A1683354, A1683449, A1800229, AW105621, AW517880, AA628896, AA972922, A1131418, BE393771, A1269897, BE898899, AA477548, AA534766, AA496431, A1128837, AA55137, AA477050, AA563656, BF446212, AW054677, BE208245, A1972158, BE394824, AA432228, AA291675, AA719455, BE394667, AA496562, W67669, AA433859, AA936665, AA452084, AW003747, AA704365, F02471, AA688358, AA292518, AW166518, AA828939, H50634, AA603048, AA075256, AA078977, AA025750, A1609687, BF750539, AA010660, BF035171, A1955963, AA287213, BG150710, BF061263, A1087799, A1459028, AA428593, A1932457, H50635, BF223547, AA284324, W67668, AA327201, AA506658, AA476938, AW772554, BE674284, BE694854, AA722190, AA507349, A1540421, AA010659, AW189604, AA290981, AA969241, A1685657, AA025902, AA406009, AW088425, AA477670, AA402537, AA477179, BE001672, BE382381, BE746798, AA394184, AA477553, BE931271, AW749395, AA290980, F02231, AV705972, AA402896, AA401329, T28367, AW207468, AA079060, A1521428, BE515017, AA477665, AA335459, BF883518, AA405299, BE001677, AA385556, AW779288, AA403038, BE001587, AW467094, AA411029, AA411533, AA908550, AA293236, AA385354, A1963250, AA402928, A1130774, AW995301, BE816517, BF877343, BF877245, H53726, AL031663, AX014329, and A18924.</p>
HFKA32	203	987018	1 - 1853	15 - 1867						<p>BF310989, AA779683, AA778834, BE671061, AV751426, A1055953, BG257892, A1609802,</p>

HHFLU49	204	987071	1 - 1380	15 - 1394	<p>AI860306, W27660, R52806, AW195940, AI380154, AV752306, AI174219, AI422421, AV753926, RA4985, T19342, Z45051, BF13622, N50668, AA699401, AI912462, Z40782, AV754072, T32252, AV754907, AA716140, AI382444, R20199, AW519215, N50758, BF831401, BG153108, AW748527, AL449781, AL449783, AL449785, AL449782, AL449784, AL449786, AI202657, AV702148, AI121740, AL031652, and S68401.</p> <p>BE792620, BE019329, AA485440, BE793998, AI469092, BE205890, AI191926, AW194434, AI184921, AL035775, AA455208, AW079362, BE269697, AA485606, AI089456, AI332821, AA630354, AA490222, AA454866, BE677870, AA744740, AI392667, AA856590, AA401195, BF529066, AW473066, BE798034, AI825496, AA352810, AA282213, D20119, R85135, AI564870, AA282165, AI453191, T28579, AA348281, R85086, C02583, BF813606, AF245447, AC022154, U48213, and D28468.</p>
HOENX16	205	987112	1 - 3893	15 - 3907	<p>BE991680, BE178297, BE178286, AI268332, BE670810, AV707583, BF195477, BE177969, AW951402, AV958955, BE551841, BF445193, H97932, AI741806, AA778568, AW157094, AV646610, BF448214, AI268370, BE551065, AI702945, AI424098, AW451803, AI692508, AW167867, AA628493, BE044558, BG116437, BE218339, AI598189, AI654033, AV653817, AI817262, BE220165, BE467572, AA971551, AW043615, BF109315, AI936744, BE219699, BE219449, AI819358, AI057105, BF448042, BE178117, BE168027, BF434998, AI887913, BF514130, AW119000, AI459272, AW025400, BF434156, AI703246, C06099, AI689853, AW149578, BF058188, AI791586, AI417870, AI420664, BE178000, AA283186, AI703125, AA394164, AI366783, AI377829, BE178101, AW149393, BF940116, AA464856, AA483691, AI951466, AI371041, AI422898, AI566539, BE219820, AI371032, AI199202, AA583355, BF058198, AI089906, BF116136, BF115258, AA977253, AI146316, AW197103, AI094921, BE326470, AA971743, AA994584, AA044947, AI075961, AI393161, AA044943, AI202319, BE327284, BE669883, AI589590, AA972772, AI632940, AA628533, AW341013, AA629360, AI215842, AI039295, AA532381, AA931937, AI076496, AI081377, AW003065, BE856431, AI299481, AA932867, BG149327, AW079999, BF436113, AI376081, AI222964, AI362071, BF061630, BF434279, AA427892, BF115881, AA618566, H98616, AI911958, AI080656, AW028722, AA628503, AA884934, AI184689, AA433882, AI357324, AA403766, N33018, AI356893, AW341785, AA934413, AA434383, AA513037, AI673829, AI376275, BE671351, AW771579, AW152313, AW104344, AA453341, AA994794, AA730790, AI139706, AW163063, BE672575, BF514498, AW139974, AW450904, BF732982, AI560166, AA992454, BF437946, AI268743, BF058175, BF732363, D52937, AA759378, BF448255, BE564373, BE766897, AI350218, AA292346, AW969749, AW263630, N99650, BE219748, AV646822, AI094082, BF431731, AI268578, AA452493, AA577028, AA484850, AW051780, BG149815, AA405847, AI279152, AV723873, AW015816, AI279039, AA230021, AA482694, BE504543, AI383225, BE672185, D62553, T75442, AW966446, AA384817, AI143652, BF514961, BE858120, BE972813, AA001089, BE222561, AA228265, AI205651, AA829807,</p>

						AA332060, BF229130, R80152, Z36959, D44840, A1692386, BE709287, AA668713, AW028893, AA935871, A1311975, A1313288, AW951403, F13013, F10610, A1910420, A1379372, AA516076, R73731, R73650, A1348747, A1610907, BE180375, D62481, BF438546, A1611925, AW297589, A1784325, D45510, BF054671, BE502727, A1671347, AA621928, BE180154, BF886759, BE180152, A1351256, AA745667, D62330, A1371476, AW4511761, BF054866, AL022726, U28368, Y07958, U16153, X75018, A1001972, AF077859, A1001971, AF030295, AL133390, AF085889, R20393, R43511, R43511, R80886, N71679, AA001053, AA149057, AA464151, AA730651, AA923038, AA934400, D79281, C20741, AA410247, AA410595, AA410596, AA436359, AA454080, AA480072, AA482617, AA709262, Z42701, AA690358, A1188065, and AW297335.
HTFOW71	206	987165	1 - 3700	15 - 3714		AU118585, BE875298, AV682483, BE708209, AW965424, BF031382, AA908770, AW194236, AA863229, AA292918, A1140754, BF130541, A1921186, AW188519, BG149424, AA878230, A1828605, AW975392, AW875556, A1949757, A1803722, AV749448, AW474515, AW474470, A1014812, A1373797, AU158313, AA526126, AA809213, AW273542, AW191931, AV715119, N62972, A1914731, N50836, A1784523, AA935043, AV681975, W04335, AA741240, N79876, AA814785, AW876605, A1000955, A1096936, AA767593, AA827102, AW876602, AW023275, A1014777, AA480539, BE007133, BF961785, AV659835, BG026599, A1358045, BF367902, AW340779, AW379327, AA280431, AW393163, R88194, AV749193, AW516924, A1095334, F17499, AW972832, AA527642, BE765701, AA334408, AA745802, W03745, AA252969, A1241826, W03727, R33831, AA745278, BE173119, R75838, N73949, A1361182, AV749201, N55158, AA096078, R75839, R33832, BE007129, N74169, A1934211, C02132, AW373395, AA253011, A1571875, AW015268, AB018256, AK026643, AK023740, and AF121862.
HITAG03	207	987262	1 - 1291	15 - 1305		AU130318, BG259774, AU125274, AU128855, BG256568, BG177060, BE257156, AU129041, A1700706, BG024376, AW364136, BE548336, AU128166, AW386043, AW601873, BF525772, BE019700, AU132416, AU127646, AA291324, BE905471, AA179587, AW503906, AW996355, BE747534, BF087827, BE709414, AW197058, W26424, BG257764, R81308, BF754332, BE256391, AU133402, M85963, AW993840, BF754246, AU125115, AW386030, AL121131, AA207003, BE390411, AA332904, BF736085, AV724551, AW373274, AU123386, T09019, BF932018, AU133513, T31784, AU132106, N77135, AU142640, AU128923, AU130530, R18813, Z43001, AU129525, BE694459, T34189, AW975891, F12246, T34191, BF085466, BE719825, BF376318, AU128888, BF968290, BF928373, AW163398, AA985239, T77416, T30644, H14655, BE171681, AA333145, BE887490, BG004439, BG001543, AA972641, BF895334, BG112027, T30285, R34764, R20971, AW503416, T65268, AU132457, BE719079, AV706679, BF895331, H19179, BE295342, BG252015, BE161948, AA156130, BE007849, BF845158, AA429537, BF514515, AU126430, BF929781, AV756829, W96495, BF841516, AA218823, H87691, AA082864, A1989432, AW843600, N56845, BF761493,

						BF899121, AI003240, T78660, BE002101, AA525285, AW340165, AF017085, AF043220, AF043219, AF036613, Y14946, AF038968, AF038969, U77948, AF035737, AF038967, AF015553, AC004883, AC005098, AC005080, AF267747, AC004166, AC008267, AC004867, and AC004878.
HNTN89	208	987577	1 - 1774	15 - 1788		<p>           BG031718, AW513358, BF976544, BF438157, BG032811, BF331293, BG024716, W79562, AL535366, BE884963, BG117015, AI015417, AA195361, AI168363, BF888337, BE736684, BF898627, BE252727, BF092574, BF026987, BF092380, AI312235, AI186042, BF869862, AW803215, BF835770, BF689427, BF002648, BF842552, F01241, BG256421, BF805719, AI460203, BG030479, BF309823, BG256560, BE763786, BG031518, BF922507, AW498536, BF882825, BF988866, BF182880, BE733066, AA452576, BE702993, AW601526, BF027104, BF882823, BF083180, AA195362, BF814079, BE314540, AA343903, BF799669, BF229237, BG257848, BF812714, BG007737, BF229214, BF829579, BE71762, BF827229, BE781509, BF346947, BG003854, BE747136, BE933685, AW499012, BF527029, AA248724, BE899626, BG030023, BG164309, AU141520, AI075887, AW498552, BF025833, BF900113, BE173877, BF912681, BF313647, BF954395, BF757992, AA577565, BG256431, AU118535, AI795846, BE140733, AI795807, AI795845, AI834271, BE140736, AI795820, BF766160, BE278426, AI795809, AI816586, AI816599, AI795804, AI795835, BE140737, BE140735, AI795812, AI795806, BE140736, BE839312, AI795802, BE811847, AI795830, BE772922, AI834270, BE140734, BE140738, BE694678, AI795853, BE140757, BF923079, AI795850, AI795844, BG031631, BE273730, BG176632, BF894840, BF981708, T12220, BE560871, BF348639, AA932665, BE140785, BF851195, BE777506, BF357970, AW177740, BG177284, BE889126, BE294313, BF984543, BE140782, BE707376, AA554454, AA706989, AW845338, BF882819, BE769206, AW580354, AW177756, BF966485, BF375580, AW581253, AW732883, BF203759, AW732860, BE616578, BF923384, BF842532, AA452754, AW607309, BE769218, AI834266, BE168455, BE814247, BF089125, BE082661, BE769200, BF510367, AI905996, BF972638, BE275901, X51466, Z11692, AF079098, AF079099, Y07504, UI7362, M13708, E01155, U89415, X15337, X15335, X15336, X13988, Z34849, AC002347, and X04267.         </p> <p>           AI347165, BE674960, AW262846, AL524881, BF590769, AI479150, AL524880, AI765046, AI954702, AI862166, AW341529, BE671360, AI979234, AA425381, BF222205, AW271374, AI498382, AI350299, AW207600, BF445305, BF939315, AA971011, AA045629, AA047515, AI675480, AI952656, AW136682, AW886735, R94308, AI135217, H92097, AI364888, AI566024, AA676245, T67202, AA885307, AA459915, AA460100, AA906376, AA935669, AA399986, BF590005, AW518625, AW769577, AF000503, AL132713, AF134726, AL122094, AJ245661, and AA401402.         </p>
HRADQ96	209	987636	1 - 799	15 - 813		
HLDCl16	210	987808	1 - 955	15 - 969		<p>           BF110739, AV704400, BG119539, AA905643, AA011185, AW975682, AA730907, AA736634, W70279, BG116516, BF914127, AI751939, AW963708, BE734515, AI242625, AA374275, AI148822, AX046526, AX046525, and AB023209.         </p>

HCOPH23	211	987900	1 - 591	15 - 605	AV729764, AA489568, BE938598, BE535256, D63283, AW177206, AA992072, BE843894, BG108043, BE865610, AW592116, AW996479, BF920145, AW996421, BF666980, AW996637, BE568865, BF216333, BE929243, AW950983, AA355341, BF036942, X89478, and A84106.
HEEAQ78	212	988159	1 - 609	15 - 623	AI203969, BE296775, AI694104, AW006595, BG259789, W19306, AI202279, AW117484, AI244102, AA360001, D31227, AW173045, W30958, D31245, W79314, AI968556, N27070, D30986, W87555, AA099257, BE550156, AI588983, AW204247, AI366748, AI803886, AI138445, AI313140, BE468140, AI458728, AI275451, AI279857, AI674281, AI431916, AW664610, AI928380, AI269434, AW303460, BE674620, AI803131, AI867122, BE221203, AI925957, AI435892, AI767332, AI218515, N99243, AW770741, AI279859, BE670348, AI379346, BE465388, AW663406, AI265771, H85592, BF110468, AA464584, AA909667, AI073818, AI243233, AA502751, AI804773, BG009489, AW779926, AI697614, AU145024, AL121250, AA889681, AC005746, U28049, AF244917, U15566, and AK001031.
HOFNY16	213	988363	1 - 1198	15 - 1212	BG164515, BG111223, BF112285, BG026284, BF684158, BG112559, AI741360, AI028092, BG027394, AW054930, AA843208, BF112117, BF106122, AI885734, AI086570, AA779766, AI149382, BE465615, AW131854, AI589032, AI761580, BF970936, AW338608, BG028559, BF594649, AW957967, BE535650, AI221082, AI538973, AI457118, AW305001, AA224194, N32622, BE857341, AI332782, AA574231, AW166459, AA502344, AI446132, AI333381, AA918408, BF700624, AA843391, AI188410, AA911794, AA694111, AI128450, AI017450, AI183618, AI695163, N71175, AI359210, AI362223, AI076169, AI373833, BE645009, AI969702, AI679434, AI679944, AI632818, AI751761, AA464068, AA677764, AA262544, AW611909, H98169, AA316805, AA224296, AI351595, H46974, BF939054, AI094637, N29775, BF000254, AA191432, BE439725, H99191, AW008944, BF317333, AA261907, AI654665, AA766635, AA629945, AA345802, N49576, BF941630, AA513768, N21971, AI469939, AA731203, AA627622, AI222668, AW627836, AI128771, AW206264, AI678337, AA463932, AA526189, AI535798, AA526159, BE615345, BE615934, N24474, AA781062, BF373261, AA766011, AI004436, AI249345, AA027991, AA366773, AA344096, R10708, AW131678, N28580, W19349, AU156209, AA333690, N47841, N57194, AW337311, AA027990, AA618114, AA861099, AA508759, AA780171, AA355540, AA508773, AA528039, AW972443, AW972641, AA535956, T25759, BE770747, AA918251, BE164977, BF997435, AI687527, AI749060, AW197976, H83283, AW104117, AW866581, AW866501, BE841187, BF374341, AW969030, BF001680, BF792390, H61031, AW866266, AW132056, AI590043, BF812960, AI433157, AI702073, BF812961, AI950892, AI635942, BF812938, AW827289, AI114703, AI280637, AI648454, BF970652, AI435233, AI633125, BE047852, AI445611, AL514717, AI569583, AW366372, AI698391, AW129659, AI635461, AI888208, AI862139, AW168650, AW026882, AI491775, BE964614, BF724198, AI431975, BF814453, AW251034, AW051258, AI536685, AI802542, AI818980, AL515191, BF816042, AV729953.

AI670009, BE965621, AW086113, AI670002, BG109131, AL513961, AI254731, AI564719,  
 BF814412, AI815232, AI677796, BE965121, AI619502, AI445432, AI514579, AI687728,  
 AL513597, AW166903, AW235482, AI435641, AI637584, AA292158, AI286256, BF925729,  
 AW081036, AV735235, AI648509, AL514047, AI690426, AI514357, AL045500, AI687362,  
 AI267162, AI926790, AI440239, AI590830, AI890833, AI812107, AL039086, AW148408,  
 AI612913, AL513577, AI620003, AI799183, AI59296, AV703585, AI582391, AI687127,  
 BF921291, AW079075, AI134830, AI580984, BF856017, AI514701, BG180046, BE963244,  
 AI635588, BF868489, AW104724, AI110239, AF151872, AK023498, I89947, AK026506,  
 AL110225, AF113019, AL110280, I48978, AF116631, AI162083, I09499, A08916, A08913,  
 AB047904, AL133557, S78214, AK027096, AL137557, AL110196, X82434, AB049880,  
 AL117463, AL359596, AL137480, AK025092, A08910, AF285167, AF314091, A65341,  
 E05822, AK026480, AL122050, AF177401, AK026504, AF119875, AL117457, AL359941,  
 AK027173, AL050149, AF116682, I89931, A65340, AL049452, AL137550, AL353940,  
 AR087170, AF116688, Z82022, AK026927, AF113694, AK025084, AF130105, AL442082,  
 AL133665, AK024594, AB051158, AK026744, AL389935, AK026532, AF119899, A77033,  
 A77035, AL050208, AL050146, AL133619, AL38982, AL162004, S54890, AF119909,  
 AL117460, AL359601, AL050116, AF125948, I48979, Y11254, AL133080, AK025339,  
 AK026855, AL137459, AK000323, A23630, A08909, AL133640, AF118090, AB048954,  
 AK027160, AF090903, AF130077, AK026542, Y16645, AB048953, AK026045, AF111851,  
 AL133016, AF090901, AJ005690, AL133560, AF116691, AF113677, S36676, I33392,  
 AK026959, Z13966, AL049382, AK024538, AF183393, AL110221, AF090900, AF230496,  
 AJ000937, AB041801, AK026583, AK026784, AF116646, AL122100, AL133075, AF158248,  
 S68736, AL133113, AF106862, AK026534, AB049892, A86558, AF225424, AF130099,  
 X57961, AL050393, AL359618, X72889, AK026592, AL080124, AF078844, AF091084,  
 AB052191, U37359, AF146568, AF090896, AL050138, AL133606, AF090934, AF113699,  
 AL049314, AK000083, X63574, AL080163, AL122121, AR038854, U75932, AF090923,  
 E02349, AL110296, AK026741, AK027204, AF116602, AF130087, AB052200, AF130082,  
 S61953, AF130104, AL050277, AL137283, AF097996, X70685, AK000618, AK000212,  
 AR079032, AL050108, AK026647, AL035458, AL133637, E03348, AF113689, AF130055,  
 AF119878, AL049466, AK026613, AK027164, AF242189, U57352, AL157482, AK000647,  
 AL122093, I68732, AL122110, AF119894, AF017437, AK026894, AK026528, AL050024,  
 I33391, AF218014, AK025407, X84990, AX019230, AL133565, AX026823, A58524, A58523,  
 AK026865, AK027081, AL049938, AF119865, AK000137, AF107847, AL137271, AF130100,  
 AL353957, AK000074, AB050431, E07108, AF039138, AF039137, AK000391, AL353956,  
 AF113013, Y11587, AL080074, AK024747, AL117583, AF176651, AK025414, E01963,  
 AL162006, AK025491, AF119857, AK026452, AK025113, AK025772, AF138861, AX006092,  
 AF111847, AF106657, AF079765, AX019229, AF104032, AL049464, AF100931, AF118094,

						AF118070, X80340, U58996, AK024974, AF026124, AL157431, AL117443, AL117435, U35846, and U42766.
HSLCX45	214	988441	1 - 1594	15 - 1608		AU138309, BE378723, AW954529, BG170125, BE407482, BF345314, BG110266, AU126439, BG25087, AI207589, BE538230, AW370396, AW514900, AW614778, BE873057, AW370434, BF968320, BG257066, AA166771, BG112058, AL525443, BF346757, BG118689, BE545196, AI808550, AU128363, AJ076009, AW748425, AL135589, AA167097, BG167568, AA430610, AI825517, AW796311, AW182707, AW748427, AI026641, BG163741, H51991, AA975592, AW995303, AI264089, AA430525, AI372496, AA297731, AW573289, AI219300, AA322231, Z45337, AI080168, AI766072, BF727366, AV696797, R76072, AA384673, W24461, BF445015, AI806968, R54168, AA296920, BE171602, BF894766, BE171603, R82603, AA294943, AV692839, AA310705, AA632404, N42674, R14396, BF726113, BE892010, AI865128, AA824553, N32458, AA356894, AA166959, AI609522, AA166910, AI253143, BE162789, BF351162, AI924986, AA444136, AT075198, W05098, AA385099, AW374839, BF516243, AI248101, AI805883, AA582768, AA809507, AA731343, W44721, AA862207, R56252, AA826145, AA573521, AV407346, BG028788, N92283, BF445409, W38624, AI373279, AI150941, AI655627, AA889359, BF439835, AW613357, AI304379, AL133843, AI143202, AI767348, BE671632, AA055559, AA400410, AI826612, AI655656, AI433399, AI361012, AI214658, T32981, AW513581, AW513568, AW772436, AW130640, BE670317, T19107, AU150661, BE220152, Z41049, AL524537, AA700295, AA001677, AW768493, BF726112, AA730248, BF196078, AW511016, AI693099, AI693113, AW150675, AA948601, AA450020, AW081598, AA947191, BF515680, AI826592, AA031305, AI693090, AW748435, T93242, AA436536, AA526868, BF034090, R82604, AA826163, AA669789, BF591968, N48257, BE550159, BF589688, T93135, AW051111, BF754254, D79627, BF184824, AI887184, BF448111, BF893582, H30152, AW844424, BE972243, BG178888, BF934121, AA180040, N35415, AA555145, AK001437, AX010197, AB006572, AF091095, AX010199, AP000693, Z82196, and AI916220.
HLMJB09	215	988499	1 - 577	15 - 591		BE791453, BE266718, AI831454, AI478449, BF204333, BE728534, AW872373, AI366669, AI280407, AA306735, BG149615, N93873, AI268479, BE669813, AA465678, BE550202, AA912151, AA394238, AA972278, AW138759, AA310901, AW004693, AW008896, H96033, AA576640, AA292385, BF307199, BF511769, and AI074225.
HOVER60	216	988526	1 - 1429	15 - 1443		AA863120, BF732235, BE326946, AW298244, AA017053, AA435512, AW295622, AW295626, AI951643, T53592, BE939132, AW294754, AA393547, T53591, AV699140, AA969193, R05527, AI085442, AA372985, R22075, AL160237, AC022137, AC011452, AC010636, AC002097, AF072711, AC006452, AL022326, AC008469, AC005520, U82670, AF176315, AL136969, AL365217, AC008770, AC005057, AC073316, AL133238, Z97054, Z69387, and AP000344.
HOGDR72	217	988536	1 - 530	15 - 544		BF967495, BF211711, AW327285, BF526862, BG025286, BF979085, BG027660, BE251902,

						AV762304, BE260454, BF129885, AV741191, BF681456, BE907272, A1884918, A1095756, F30101, BE254907, AU126691, AV714954, A1827092, AV743251, AV710585, AW732886, A1344424, AA584218, AA744890, A1300848, W16526, A1748804, A1857538, A1264687, W47377, BF792830, AA040213, AA609680, AA937134, AV745024, BF681171, AA557625, BG231394, BF239199, A1188746, AV721211, AA855009, AV715743, BF686712, A1033767, AA420847, BF965251, AV724057, A1312889, A1342092, A1392941, AA707599, A1573264, A1298244, D61196, AA707532, A1338594, D20757, F24231, BF447322, AA650234, AA758576, N29939, AA468938, W05637, AV751983, AA313977, AA683534, AA469013, BE868256, F19198, AV737070, D51524, AA420429, AA657493, A1749529, AA335917, AW008966, H10544, A1131360, A1037998, BF240779, A1751883, AA313970, A1051789, A1159957, W47378, AA523187, AW026532, BE887794, A1857469, AA657513, F24557, AA146866, A1720892, F36863, F28793, W32886, AA146867, AW007089, BE672619, D81191, AA968838, BF337165, D51520, AA889941, BF954574, BF209878, AA632059, AA576811, A1300706, T79725, AV739817, T68141, BE812441, R73094, AA339720, F19462, BE073352, AA724959, AA961393, A1336135, A1138721, F27913, T30336, A1204128, F31843, T32200, AA568145, T36073, N74191, BF210913, T67995, T92099, T71446, BG254284, F34123, A1749424, D56154, BF954482, AW884243, AW939886, AA083105, D81173, AA313992, W35155, BF239376, AA471133, AW631265, BF572665, T31892, BF131513, D81247, W04355, BF572508, AW327625, D81378, D52437, AA082542, D52443, D59501, AW793583, AA083106, T24841, C03173, BE972561, W05779, R29137, H89590, D53867, BF799254, T35945, D52190, AV737705, A1936104, N92532, AA630017, AA040193, AA922437, AA382273, A1161393, F22684, AV741683, AA996319, T36223, F29277, AV719994, AA721470, AA622177, AA040194, BE073240, W38814, AA382638, BF840821, T77354, H24146, BE907742, BE073229, BF588473, A1191983, BE905959, BF431001, AA633270, BF572727, AA860915, AL046356, AL041862, AL079977, AX017269, AR022287, AL138958, L42855, AR022284, AC004493, and AC005570.
HOCMEF20	218	988556	1 - 1296	15 - 1310	BE514634, BG256857, BE870314, BE537227, BG107758, AU157340, BE379227, BG180584, AA039903, AW957081, BF666246, AA041527, BF223913, A1088688, A1452952, BE463637, A1768938, A1354883, A1569996, A1168582, BE746240, A1189869, BF930629, AU138248, BG167829, AA214649, BF897138, AW613854, A1086670, R70656, AW262560, AA906264, BG176733, AA862839, BF992831, BE613477, BE614226, BF772857, BE741553, AA369318, AA398795, AA334622, AW749053, BF979310, BE541549, A1990089, R01145, AA367593, A1990659, AA379173, AL449915, A1886597, A1024032, AA433840, AA670197, AA847919, BF195634, AA248230, BE707671, N81095, BF196800, A1476295, AW818630, BE677063, AW630122, AW582595, BE072906, BF899151, AW818433, BF928637, AA211075, AW582587, BF877092, R05760, AW858854, BE964371, BF773525, BE937222, AA079305, BF799977, BF982105, BF988362, BE927423, Y10043, AF003626, AX012194, AX011713.	



HAMTH26	219	988737	1 - 915	15 - 929	AF022465, AL357512, Z83826, Z93931, AC016617, AC002526, Y10044, AL353728, AL137124, AC005519, AC005479, AL136094, AL034450, AC002375, AL049709, AL035420, AF047701, L05085, AC004493, AK025579, AB016091, AB002322, AF201422, AB016092, Y17793, AX030435, and W07456. AU128934, AW295223, BE464400, AA991499, BE896488, AA350115, AA862497, AW803075, BF307480, BE771630, AI563361, BF305159, BG035692, AU143667, BE888160, BF308892, BG167064, BF316003, BG105910, AI533676, AA689522, AL527443, BF310865, BE561846, BE902727, BE250595, BE562560, AI970905, AB014077, AC004209, AF000513, U63336, and Z63167.
HFFOX44	220	988904	1 - 951	15 - 965	AL526701, AL522456, AL532453, AL527039, AL523903, AL526253, AL528026, AL527184, BE313151, BF981949, BE382548, AL528052, BE382760, AL530393, BE363051, BF316765, AL525360, BE295221, BE395130, BF343372, AL522455, AW161570, AI752220, AL528025, AL523902, AI752281, AL532452, BF316189, AA780343, BE314081, AI751714, BE710678, BE312148, AL525320, AA838048, BF526000, BE262385, AA308676, BE735562, BE295717, BF340685, BE714898, BF206587, BF207314, BF875508, AL527163, BE383255, AA532924, BF312104, AW160787, BF342085, BF206655, BF338128, AL524678, AA443563, T61701, AI750244, AW605824, BE792522, BG026032, AA327814, AI815410, AA042827, AI460348, AI365667, RI9505, A09809, X16302, M35410, S37712, M69237, AF074854, S44612, AF120326, U21117, AC007563, M69239, S37722, and U21118.
HPWDE54	221	989029	1 - 4052	15 - 4066	AW857689, AW276231, BE551292, BF308481, BE299013, AA490201, BE670363, BF669630, AW005386, AV716271, W58332, N34876, H49263, AI989984, BF380965, BF351245, AW604667, T65325, AA316606, AI632927, AA284855, AW175932, AA456691, AA479509, AA284772, BF882124, BF754718, AI332652, AA479512, AI344533, H20606, BE502863, BF527371, AI025009, AI914188, F11769, AA449658, BF093603, AA992445, H14740, H69342, BF329858, H78105, AA065099, BE220691, AW003734, R91727, BG015459, AW468776, AI239843, BF333777, AA411443, AI135088, AA235153, AI651557, BE048365, F35147, BE311701, BF803133, AA479511, AW080475, AA689564, AI093007, BF329815, AI367837, Z41915, AW051387, W24995, AI613126, AW975318, AW383213, H82282, H24463, BF761251, BF834044, N55797, BF761000, N39880, AA284683, AI582820, AW444888, BE326218, AW002105, BE768127, AI350138, AI681729, H60265, BE940320, BE326820, AA284567, AA815230, AA476964, BF911584, BF909991, AW183890, AI241032, W46875, AA084319, AI633647, H94957, AI262918, AI022584, AW005596, N43950, H82389, AI683444, AJ252060, and M85156.
HNOAX46	222	989183	1 - 2741	15 - 2755	AU119537, AU134978, AI064858, AI064875, AW007726, AV703643, AU127757, AI694749, AI819136, AI887756, AI869305, BE885171, AA600798, AI887625, AI628095, BF061377, BE348369, AA723035, BF525409, AU148211, AI203615, AU145850, BE178344, AW169246, AI523583, AI922660, AI589554, BE720104, AV722120, AI805580, AU148112, BG250310,

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HCQCB28	223	989280	1 - 1134	15 - 1148	AL520689, BE735404, BG112775, AI857685, BG167421, W19090, AI127950, AI093116, AI937245, AI498052, AA837396, AA931150, AA894527, AI077433, AA814942, AA729327, AA910659, AW405693, AA836412, AA564324, AI623269, AA846844, R16770, AA932274, AW854929, BF667815, BE208685, AI470094, T89616, BF754529, AI208399, N79612, AV756491, AW328331, AI625604, AI635440, AW370878, AI698941, AI282253, AW069227, AW969824, AW819125, BF725844, BF804385, AI687343, AI609972, AW968338, AL046746,

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HOOJB32	224	989321	1 - 2335	15 - 2349	AL515532, AA829751, BE748918, AW007550, AL515533, AU119923, AL518484, BF697251, AW978734, AA812215, AL333647, AA776760, AA479310, AA976233, AA765519, AA602624, AW978969, BF214666, AW893942, AW993668, BF726646, BF036225, AL619447, AW272900, AA143053, BF589461, AI832440, AA825905, AW271599, AW439208, BF981088, AA868695, AA632054, BE895236, AW607674, AA143252, W60553, N27545, AA255434, AW272364, AI886366, AA027768, AA766708, AI079161, AI963170, AI079664, BF132493, AI274767, AA938443, Z25256, AI803757, AA757112, N40361, AV699373, AW607572, T50699, AW607642, F00462, BE165952, BF130297, AA876224, BE560621, BE748396, AA294831, BF900791, AI698984, AA255596, AW572264, AA805436, AA357727, T77071, BE896446, BF921133, AW964250, AA479413, BE542265, BF241063, BF576917, R80504, AI886367, AB007619, AF006265, AF076524, AL133353, L29555, AF059321, and AI168650.
HMWJJ35	225	989323	1 - 595	15 - 609	BF130431, AU148003, BF541521, BF668426, BE960616, AW955644, BF242464, BF242953, BF700182, AW592565, AL536954, BE737954, N39380, BF698754, BF214449, BF667459, BE565781, BF028162, AA640397, BE748478, BF238497, BF664849, W00920, BF665032, BF570721, AW976277, BF027869, BF664855, AA379071, AA329515, D80838, AL536953, BF695984, AA936496, AL109925, AK022419, AF254117, AF264787, AL137060, Y15228, Y15381, and Z57881.
HHFLA95	226	989396	1 - 3136	15 - 3150	AU118053, AI761722, AU133368, BE220681, BE904300, AA903124, BE218571, BE875326, BF110216, BG254952, BE393532, AL134516, BG105299, BG177247, BE885702, BE154897, BF037984, AI831473, BF574765, BF576023, BG260292, BE439745, AA604081, AA603455, AW629057, AI817117, AI694366, W80392, AI935246, AU144710, AA887227, BE154865, BG104770, AI076013, AA211611, AW168295, BF672060, BE154866, BF036585, BE154898, BF355599, BF671956, BF031143, AW769409, AW263745, AW977292, AA211683, BE075303, AU154716, BF215526, BF800037, AW086067, BE871344, AI281897, AI827407, AI244255, AI660036, BE789605, AI559254, AA044091, BF983298, AI122753, AA917034, AI637588, AI808102, R60765, W78970, N2921, AA393852, AI040177, BF229422, W56449, Z33451, AW771892, AI190898, AA547998, AW242400, AI188686, AI242430, AA604102, AA044281, AA765282, AV722457, AI338330, AA159042, BE880891, BF574179, AI338329, BF103937, BF219369, HI8545, AI973242, BF105139, AA393851, BE891180, AA995784, R60253, AA569460, AA936280, F06764, AA993733, AA031985, AA541308, R67234, BF229418, BF802756, Z39821, AA173320, AW136432, N63356, AW316605, H51502, AA173319, AU124276, H02648, BF672600, Z26973, R81685, AI244925, AI016876, HI8437, BF686307, AW265135, T54070, AI341355, AA565781, AW023057, R74303, AA856745,

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HSPSH36	227	989607	1 - 3341	15 - 3355		<p>AI084794, AI079577, BE881652, BF339888, AU129623, A1860227, BF527871, BE902813, AW247256, AW149506, A1340349, AW165995, BE258548, BG120667, BE562875, BE671167, N49941, BG122408, A1937382, BE220476, AA114972, BE467738, BE872452, A1798846, AW043850, BG104282, A1660526, AW504750, AA053861, AA432275, AA034091, BF798185, A1310064, A1677900, A1587077, AA543064, BE045523, AW898148, A1693972, A1356444, AA845685, A1084913, A1140117, AW593208, BF111021, A1273445, AA431268, AA934875, AW248351, BF432911, BE670425, BE828110, A1221382, A1356446, A1160550, BE217783, BG112435, A1689824, BF110424, A1914318, AA953658, W73665, BE673799, A1359956, A1360429, A1804623, AW965712, AW205262, A1342370, AA620610, AA918736, A1279173, BG149447, AA041542, A1304417, AA515511, BF061408, A1565733, A1859179, BE674577, AW071018, BF061911, A1351605, AA001196, AA923717, AA706669, A1950177, A1566935, A1311478, W73617, AA007600, BF840585, BF061852, AA503205, AW014660, BF112260, N52723, AW303274, AA352018, AA961114, BF195300, A1480209, A1278673, A1916311, H38785, AA047595, AA136472, A1052140, A1298446, AA057216, AW043575, A1128766, BF446866, W68642, A1033091, AW665976, AA889932, H95052, AA747719, T66290, A1298975, BF773249, A1375774, A1703297, A1500368, H20393, BE327032, N99560, A1090578, A1023749, AA086083, A1275622, AA757794, A1452648, A1583232, A1568624, AW470278, W68641, BF978456, A1364086, H16275, H38686, BE831779, A1459176, H83993, AW149552, AW949838, A1422271, R05556, H12369, BE676655, BF197252, A1609045, BF055295, R19188, R87458, R05663, A1268656, T66343, H21010, N50155, R71281, H43161, R61162, R85142, A1918177, R73430, R71230, AA372029, A1268549, A1702648, H75726, R99486, BG165410, H12317, AA814517, BE645111, A1348485, R99485, A1500402, AA975326, AA976181, R31047, A1348329, A1083736, A1369621, A1568988, Z41094, H66760, A1479912, AA086084, A1970578, H22528, W35148, AA971720, F12147, AA760693, H19816, H20389, Z43042, AA016275, AA782921, R05664, BE044409, F08012, AW973038, AA927449, H94692, BF766588, AA019859, AW151197, R56553, R05452, BE762898, H20197, AW006795, A1457786, AW002114, AW247925, A1937423, AA725110, AW505065,</p>

FI6642, H03295, BE908382, AA532545, A1050857, BG118564, AA325830, AA374644, AA059195, H83994, R31828, AA054196, AA054082, H20967, AF783667, AA057217, BE867862, H22529, H45049, H43097, H45084, AA365152, AA059196, AA649840, R87459, AA62269, AI358452, AA936451, I23531, M94654, I23530, X60787, U58196, U58198, U58197, AR040823, AB052191, I48978, AK025435, AL131113, AL137284, X78627, AK027173, AF232009, AL137550, AL080139, AR050959, AF082526, E12747, AK026633, AL117587, AF271786, AF116682, I48979, AL137479, I89947, AL133637, I68732, AK026480, AL122110, AF116631, A77033, A77035, AF039138, AF039137, AF130110, AF192401, AF192402, AL133061, AK027101, AK024992, AK026541, AK025798, AF267849, AR011880, AK024978, AF124728, AL389935, AK026857, AR022283, AF260436, AR013797, X60769, AF116688, AB044547, A65341, AK026642, AL359583, AL122100, A21625, AX019230, AK027121, AF080068, AF031147, AX040974, AL110228, AL161964, D16301, U38419, AF087943, U62807, U49908, AX015915, AL162002, AF100931, AL133084, AF113694, AF145233, X83544, AJ299431, AF054988, M85164, AL137256, AK026434, AR034821, L04504, AK000083, AF130082, Y16645, E03671, I33392, AF183393, AK025015, AB024524, AL137533, U75304, AL096728, AL110223, A15345, AK027111, AL049339, AF111849, AL117460, AF106657, AK027129, AK027164, A08907, AK027102, AF090943, AL122116, AL122106, AK027217, AK000414, AF177401, AL080147, AL157433, AK026630, AF141289, AK025084, AB047878, AX020124, AL117457, AB047627, Y10936, A65340, AF130035, AF124435, AL133623, AK026556, AL136884, A57389, AL137554, X06146, AL137529, AF030513, AL157482, Y07915, AR038854, AK000502, AF013214, AF130056, AK025414, AF069506, AL137258, AF254119, AF090900, E01963, I32738, AC012502, AL137555, AL357195, AL050172, Z82022, A49139, AL050116, AF208850, E01614, E13364, Z30970, Z35309, AF113677, Z97214, AL049324, AF090934, AK026504, AK026597, AL122050, AF130100, AL110296, AL442083, AB040710, AF047443, AL096744, I25049, I25048, AL353956, AL080148, AF267991, AF314091, AL137657, AK024588, AK026894, AF119899, E05822, I33391, AF113699, A76335, AR029490, A08913, AK026844, AF017790, AX014101, AK025312, AK025658, AF262032, AL389947, AF119843, AF155656, S83440, AF265236, X68560, A08910, AL137480, AL080163, AL137716, A08909, X63410, AL049283, AL355719, AK027260, AL442082, AL133112, AF175983, AF111112, AF119883, S83456, AF113019, AR068753, A08908, A86558, X66871, AF119908, AF143723, AL080110, AB052200, AF115410, AF061981, X93328, A12297, AC007172, AL110218, AL110199, I00734, AL137537, AF026816, AL080124, X97332, AF000167, T53454, R11440, R61875, H03294, H08625, H19815, H20201, H75375, H95897, H96280, N71552, W20181, AA001135, AA017682, AA039919, AA525887, AA903401, AA906704, A089860, AA471142, A1093624, F02518, F09784, AI363880, AI445507, AI242341, and AI873173.					
HAAA25	228	989952	1 - 1179	15 - 1193	AI680985, BG168038, AW945162, AW950652, AA554513, BE880730, BG170870, BE223010,

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HTEMJ16	229	990060	1 - 784	15 - 798	



HWLAB90	230	990146	1 - 2999	15 - 3013	AA318716, AA187616, A1243176, A1371742, AA383017, BF819540, Z20217, AW602656, AW504060, AC006064, AF151075, D63880, AP002085, AP001631, AP001748, and A74500. AV714144, BG032179, AW970180, AW968919, BG166257, AA488919, AW193898, A1809235, AA975791, W91952, A1761005, A1339783, A1033067, BF034415, AW130078, BG002378, A1859374, BE89684, AA873447, R56753, W67396, AA514367, AA468526, AW613857, A1272684, AW303839, W67251, AA614766, R97330, A1304566, AA574117, H56576, H10098, AA488848, H10045, BF367097, C00414, A1300710, A1767837, AA918651, AW080712, A1015068, R97302, A1219130, AA977641, H81286, AA721681, AW630124, A1244872, R56905, H81342, W91879, AA009655, A1358594, A1991374, BF987177, H56577, AA886283, BF056410, R25858, BE091015, AF067817, AFI18887, AFI18886, AF067816, AFI40280, and AF035442.
HOSED43	231	990184	1 - 796	15 - 810	BE293450, A1416985, BG259922, BE250091, BE409947, AW976132, AA127077, BG036566, AW006165, BG255815, BE267475, AW403861, AW408474, R47317, BF878882, AA074323, AW842660, BF825561, BF879325, AA806524, A1037897, BF932189, A156313, BE788042, AW752809, AW752712, A153037, AA602557, A156024, A127078, BE245636, AK001851, AK023509, A137818, A1356108, A1023755, and AK022251.
HNODF50	232	990254	1 - 1305	15 - 1319	AL517211, AL518669, AL518668, AL522147, AL521219, AL525965, AL521218, AL517210, AL526016, AL529841, BF310468, BE260926, BF528453, BF792486, BF968614, BE727867, BF969532, BE741455, BF968373, BG254612, BF206651, BE780582, BF315676, BE314740, BE778351, BF337363, A1052120, A127936, BF967743, BG256216, BE794943, BE543980, BF037565, BE906194, BE778878, BF980637, BE618222, BE385237, BE907648, A1564007, BE250963, BE786495, BG036398, BE251987, A1539865, BE786363, BE264208, BE538552, BF239260, BE878498, BG118091, AW674383, BF313845, AW948987, BF669238, BF528446, BF125038, AW054769, BE262248, BE545571, A1921598, AA492511, AA587938, A1857898, AA633515, BF027253, BE697365, BF925551, AW341500, BF954735, BF977183, A1745475, BF954757, BE260934, AA769361, AA599303, AW956994, A1286245, A1274299, AW666003, AW958317, BE252135, A1252682, BE877011, A1382161, A1076260, BE618764, A1127273, AW190900, AA514755, A150315, AW939258, A1906279, W73289, AA503533, BE777951, BF093632, BE163339, AW236251, BE266670, AW872807, AA653758, AA612989, A1440380, A1469422, A1271745, BF945505, A1873681, BF675437, BE967460, AA572935, A1910865, W73234, AW241946, AA804790, A1356494, AW674551, BG023980, A1208194, BE745501, BF528373, A1690448, BF724593, AW103110, BF994022, BF993923, BF991645, BF993922, BE972246, BF994018, AA806069, AA834818, AA305461, N30688, BF312335, A1289450, AW794720, AW794703, AA305936, BF993929, AA311372, BF677595, AA305330, F37016, BF993927, AW878217, AA654459, BF991629, A1215967, AA772577, H45301, BF803635, AW086134, BF994329, BF994316, H45074, R48780, H18284, BF994322, R78818, AA040670, W31677, AA708219, AA148170, AW340499, AW183355, BF993333, AW082264, BF993925,

					BF991324, R48885, AA854391, BE743249, BF572574, BF993909, F22269, H11318, BE816818, AI919387, BE929439, AA293184, BF993998, AW601441, AA551484, AI215973, AA040571, BE074790, AI684072, F25626, AA225507, BF229895, H45378, C00180, BF994312, W32101, U46271, C03223, AI918341, AA356495, T99316, AA371678, AI342719, AA300944, BF344854, BF446856, AA364820, AI871791, BF993916, BE769414, BF331401, H45041, AI206745, BF856284, BF993912, BF332671, AW268821, BE185060, BF856295, AW082610, BE766240, AW939875, N41296, AA143767, R73522, AA330825, BF572595, AW407942, AA293185, AW198148, AW885160, BE155766, BF737069, AW381772, AA810809, BE173861, BF570667, BF755706, AW582513, BE828404, AW843210, AA458493, BE155779, AA904696, BF743412, AW748144, AI139866, AI633937, BF572945, AF222742, AR048276, AK001416, AF038958, S45663, AC010527, AF038959, AC009004, AX041002, AX040958, AX040974, AL133655, E13998, U30290, AL133053, AL133076, AL133084, AL133070, AL049423, AL133051, AL133049, AL122101, AL133607, AL133015, AL133608, AL136975, A90832, AR055519, AF002985, AR015970, AR034821, AX015526, AX030435, AF184110, AL122049, AC024067, AL110171, AB047966, AF126531, Z69719, AC004213, and AA494290.
HLWBV17	233	990255	1 - 684	15 - 698	AI339865, AI469422, BG036398, AW958317, AI076260, AA492511, AI382161, AI921598, AA769361, BG118091, AI564007, AI052120, BE385237, BE777951, AI286245, AI252682, AI274299, AW054769, AW341500, BE545571, AI127273, AI857898, AI745475, AI440380, AA514755, AI690448, AI356494, AI271745, BE538552, AA599303, AW666003, AA612989, AI873681, AW872807, AA572935, AA633758, AA503533, AA633515, AI910865, AA587938, W73234, AW241946, AL518668, AW674551, AW190900, N30688, AI208194, AA804790, AU150315, BE907648, BF125038, AW236251, AA834818, AW103110, AI289450, BG256216, BF967743, AI215967, AA806069, AA148170, AA772577, AL525965, AA708219, R48780, AW086134, H45074, H45301, W31677, AA311372, H18284, AA654459, AW183355, AL521218, BE518764, F22269, R48885, BE743249, AA854391, AA040571, AI919387, F37016, H11318, AW948987, AL517210, AI215973, BE074790, AI684072, AA293184, C00180, H45378, AI918341, BF856284, AI871791, BF337363, AI342719, BF331401, BE769414, BF446856, H45041, AI206745, F25626, C03223, AW082610, AL518669, AW198148, AA143767, R73522, AA330825, BF856295, AA293185, AA810809, BE155766, BF570667, AW381772, AW582513, BE155779, AA458493, AL517211, AA551484, BE878498, AA904696, AL521219, AL529841, AI139866, AI633937, AA862050, AL526016, AA552564, U46271, BG150895, AA329184, W73289, AI809413, BF239260, AA664948, BF968373, BF746013, BE876454, AL522147, BE260926, N27632, AA225507, BE727867, BE251987, AW878217, BF968614, BE185060, AW340499, AW082264, AC010527, AF222742, AF038959, AF038958, AR048276, AK001416, and S45663.
HOCQH66	234	990435	1 - 3554	15 - 3568	AW385298, AW834944, AI801294, AL048012, AW385250, AL048318, AI147487,

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HOGDC67	235	990546	1 - 1875	15 - 1889	<p> AF106862, AF119875, AL110196, AJ000937, A77033, A77035, AB047615, Z72491,  AK026647, AL133557, AF177401, AK026927, AL359941, AL050024, AK026353, AL117457,  AF119899, AF130059, A08913, AK025312, AF130082, S78214, AX019230, AF090934,  AL137478, I33392, AF110640, AK025092, AL050149, AL110225, AL133568, AK000445,  AF116610, AK025958, AL162006, AB048975, AF090903, AL122093, U91329, AF090943,  AK026626, AK027164, AL117460, AR079032, AF090901, AX019229, AF100931, I89931,  AL137557, AB048953, E05822, E06743, AK025414, AL133113, AR013797, AL162083,  AF113677, AB048964, Y11254, AL133016, AL442082, AK026534, AF119894, AK025391,  AK026045, AF143723, DB3032, AF116691, AF069506, AK026784, AF111849, AF130087,  AF130099, AL442072, D83032, AF116691, AF069506, AK026784, AF111849, AF130087,  AF130075, U80742, AL050092, AK026600, E01614, E13364, AK026947, AF116688,  AL133957, AF090896, AR038854, AR087170, AK024588, AK026480, AF119909, AL133075,  AL137527, AL050393, AL389935, AL133560, AK024538, A65341, AK026528, AL389939,  AK025339, AJ242859, AK025491, D16301, AL110221, AF242189, AK026434, AL096744,  AX006092, A08912, AL050108, AF130110, AL133606, AJ003690, AL080074, AF000301,  AL050277, AF091084, AF218031, AF113699, AL135956, AL110296, AF079763, AL137550,  AK026630, AL133080, AF090886, AF260366, U35846, AF175983, AL162004, AB051158,  AL137488, S61953, AL110197, AK027204, A07647, AF130077, AL117435, A03736,  AL137480, AJ006417, AB048954, AL133067, AF218014, AL049382, AL117626, AK026959,  AF210052, Z82022, AL359601, AL353940, AF146568, AF113691, X63574, AF116644,  AK026593, AF119865, AK026649, AL137429, AK027096, AL049938, AB047887, AB041801,  AK000432, U58996, AK025084, AF176651, AK026741, X84990, AF017152, Y09972, L31396,  AL133565, L31397, AF230496, AL080124, AL162002, AL117648, AL137523, AK024524,  X72387, AF118094, S36676, AL049430, AB050410, AL050172, AB044547, AB052200,  AK000618, AJ003118, AK026532, AB048994, AF130055, AK026522, AF225424, AR070212,  AK000323, R25881, R34259, H28436, H59690, H61492, H77699, N91800, AA028988,  AA057879, AA418359, C01863, C17456, C18297, AA096264, AA598999, AA669967,  AA670244, AA599439, AA853846, AA852638, AL270009, AL270348, AL273845, AL445502,  AI431426, AI440217, AI560603, AI567708, AI582564, AI589733, AI597769, AI619460,  AI640716, AI676245, AI682755, AI689101, AI700156, AI701238, AI701309, AI865958,  AI890914, AI802545, AI926075, AI950602, AW005959, AW026619, AW085893, AW072980,  AW241156, AW241350, AW270715, AW272739, AW190329, and AW304411.  AL522719, AL530045, AL526479, AL515639, AL526439, AL515638, AL529665, AL521252,  AL527656, BE797221, BE795409, BE798654, BE796334, BG252121, BE277057, AI608756,  BE300022, BE513242, AU142632, AU117922, BF527825, BE561443, AU142525, AU122446,  BE263145, AW301066, BE260541, BE798136, BE560713, BF527824, BE267445, AL522718,  AL527657, AU124297, BF308205, BE877379, BF308460, AU132733, BE255304, BE265023, </p>
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HODGN92	237	990611	1 - 492	15 - 506	AI114709, and BF515175.
HPDRP30	238	990751	1 - 2150	15 - 2164	BE736233, BE393462, BF979620, BG180451, BG031119, BE895899, AW015154, AI367256, BG250616, AW246035, BF589766, AA723883, AI339548, AI148428, AW518892, AI874244, AI339560, AW003788, AI653700, AA777268, AI261244, BE906120, AA847296, AW007179, BE293221, AW173770, AI346957, AI475948, AI143349, T65504, AI814098, RS2652, AI339729, H39618, BE545311, F13535, BF980260, AV652617, and AL122073.
HDXFN09	239	990769	1 - 234	15 - 248	AA034059, BG159883, and AW998693.
HDTBO75	240	990913	1 - 455	15 - 469	AV752559, BE041424, AI374803, AV662297, W92499, AA431153, AW977181, BF439568, AA678183, AW834968, AW834907, AW837310, AA885002, BG028110, AA732329, AA732727, BF242398, AA432173, AW176741, AW580372, N55761, BF982207, AW241399, BF224093, AW970314, BF507800, AW970227, AA628895, AA766833, AA534395, N32238, AA347608, AW189247, R49979, N31980, AI650721, AI685214, AW511372, BG257682, BE549817, BG252929, BG167830, BG029667, BG113493, BF795712, AL039390, BF796402, BG261260, BG113712, BG163646, AL046681, BG178532, BG180295, BF968504, BG167093, BG114865, BF345716, BG111831, BF971261, BF965904, BG179586, BG111590, BG036465, BF968622, BG251851, BG165260, BG176936, BG104735, BG108452, BG035330, BF794212,

HELGN26	241	991014	1 - 1609	15 - 1623	<p>             BG164752, BG033403, BF347093, BG029194, BG176609, BF979998, BF983875, BG249858, BG036550, BG251257, AL046137, BF527274, BG111916, BF992586, BG030750, BG252019, BG181100, BG169376, BG024457, BG166490, BG180788, BG029128, BG261116, BG111100, BG028216, BG122277, BG171463, BF97137, BG119543, BF970425, BG180200, BG251476, BG178146, BF968453, A1249936, BG251076, AL042551, BG259829, BG115045, BG167751, BF797072, BG178879, BG165043, BE783067, BG257535, AA298135, BG120398, BG030516, BG259587, BF527413, BG114012, BG034554, BG180046, BF526526, BG110517, BG252778, BG120046, BG035653, BG110518, BF969185, BG168672, BG171608, BG169249, BG169238, BG106515, BG027368, BF339484, BG114853, BE897632, AW872786, BG171620, BE883391, AL045166, BE464688, AA938721, BG105318, BG116926, BE618455, BG171701, BF981492, BG177541, BE622452, BG168889, AF065391, AK023252, AF013965, AF013966, AF013967, AF065392, AL133076, AL133074, AX040958, AX041002, AX040974, AL133655, U30290, and E13998.           </p> <p>             BF970582, BF971269, BG035858, BG170653, AA527442, BF032717, BG255093, BF684481, BE304332, BF312957, BE740090, AI651618, AI700966, BE616023, BF439777, BE218172, BG259712, BF223565, AW328638, AW081016, BE312971, BE218745, BE880967, AW965885, AV688930, BF110536, BF223349, BE616836, AI659341, AI492019, BF037137, BG011544, AI801971, AA653440, AI763063, AI62810, AI830364, AA602677, AI799940, AI590301, AI155644, AI132754, AI693639, AI538876, AA935812, AI913180, BE262105, BE220203, AW872403, BF431624, AI478310, BE502628, AI963163, AI049932, AI867018, AI445763, AW328637, AW237634, AI686646, AI093564, BF309857, AI355982, AV692290, AW004960, AW628274, BE676445, AW168151, AI720994, BE501936, BE677346, AI624773, AI038791, AI673720, AA777083, AI241965, AI083640, AW513233, R50466, BF962310, AI990564, AI121215, H30620, AI101514, W67379, AA778130, AW139256, AW514997, BE897897, AI540831, AI824615, R39429, AI291349, AW193446, AA114190, AI241095, AW193788, AW389519, AI132803, AI687589, AA358948, H28151, W31255, AA912622, AW591011, AI538118, AW075509, AW614272, BE349060, AA456143, AA780923, H46616, BF529857, W67264, AW233829, AI686256, AA308514, AI538723, AA706294, N91821, R38344, AI811489, BE833082, AW663952, AI862679, BF856265, AI478217, AW338623, T24735, BF981529, BE242914, BF970481, BE272808, AW953574, AV709660, AV709314, AV727029, AW951768, AV728518, AV696931, AV706417, AV656256, AV703169, AW954237, AV692691, AV708893, AV709390, AV728642, AV686064, AV660728, AV691080, AV661704, AV655280, AV659322, AV708381, AV727935, AV699089, AV706721, AV687035, AV655096, AV707753, AV708025, AV704269, AV726103, AV705280, AV698545, AV729220, AV726816, AV695545, AV701707, AV656283, AV701914, AV705159, AW945168, AV658863, AW955012, AV727787, AV654908, AV652001, AV651955, AV696866, AV725920, AV704234, AV702516, AV709407.           </p>
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HODCU15	242	991048	1 - 3173	15 - 3187		BE782829, BE166336, BE893914, BF963846, AI637581, AI635627, BF956699, AW615337, BE892490, AW081066, AA398002, BF246643, BF959925, BF943255, BF352768, AV714386, AA399078, and AC046129.
HOGDI51	243	991268	1 - 962	15 - 976		BE745148, BE314775, BF313468, AW972065, AW160403, AA190647, AI468027, AA732363, AI568476, AI815528, AW015158, BE315222, AW958765, AA725374, BF446080, AA668784, BF313148, AA058590, BE741366, BE261839, AA021327, H92735, AA627547, H96373, H85956, BE843878, BF058863, AA973647, AA018467, AI240617, AA383496, AW439263, AI925892, AW162022, BE694410, AI739208, BE694382, AI336026, AL044942, and AF007872.
HLWAF02	244	991516	1 - 569	15 - 583		AA421538, AL525449, AU153711, AW964455, AW964457, AU148695, AU149818, AU147714, W72446, AI004165, AU159170, AU151493, W31068, AW874565, AA295338, AW269624, AA577265, BF764205, AW732171, AV702593, AI863050, AW003851, AI190446, BF843436, AA417216, AA483528, W74385, AW748748, AA318970, BE795181, AA872030, W76345, H26877, AW384040, AW517019, AW884747, AI469697, AI370275, BF892944, AI017646, AV690726, AL036104, H99624, AV689538, AV698770, AV691815, AI421770, BF591512, R94006, BE782006, AV689959, BE169392, AV689985, AV689953, AF004539, Z41369, F09802, AK023231, AK001371, AK026645, AB040885, and AK023160.
HRKPA16	245	991654	1 - 625	15 - 639		BG259737, AW194396, AA143418, AA404619, AI608754, AU154417, AI374988, N63618, AU149063, AU152646, AW966669, AU152215, AI038547, AA443610, AI690852, AA427421, AW339887, W60354, W59988, AW118447, AA349493, AI445343, AA461548, AW993204, AL121201, AA946641, H59011, AI014721, R98999, AW103224, AU157188, AI357842, AA927255, AA843235, BB467545, T64658, AA887129, AA354545, AI811399, AW072161, H21841, AA805567, H88125, H49591, AI279415, BF912456, AI621314, AW593607, AU148527, AU157952, AA665881, AW468541, BF947706, BF084343, T24715, AW406139, H88124, BE174405, AA640305, AW021674, BF914416, AI754257, AA493464, AI572680, AA610644, AW051097, BF747303, BE328286, AA177130, AV651424, AA493245,



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HEAAY09	247	992678	1 - 391	15 - 405	AUI24283, BF306200, AUI39037, T77235, AUI21920, R14830, BF934985, AW403909, AW630865, AA359207, AI929350, BE552049, AUI18152, AUI33500, AL037780, AL037781, AW163588, AUI19533, AL533231, AI342324, AL525586, AL534903, AL532560, BE082428, AL533180, AUI37962, AL533149, BF307401, AW394232, BG114142, AUI33890, AL517501, AW160514, AL536801, AI929125, AUI26141, AUI39293, AW368666, AUI33708, R99660, AL532677, BE612412, AL513758, BE299128, AUI35050, BE742584, AUI29935, AI309542, BE886331, AW163176, BF346813, BF220002, BE512694, BF361085, AUI34988, AW842087, AW842088, AW842086, BE541071, BF528575, AA178907, BE617099, BG178536, BF340570, BE891863, BF091880, BG109816, BE410513, AUI40111, BF346953, AI201385, AA781408, BE894297, AUI27156, BF316594, AUI34195, BF528479, AA398237, AA403177, AA347489, BE897187, AA634306, BE873260, BG257621, BE891934, BF037637, BE796323, AL047517, BE890489, AA668405, BE544513, BF311830, BF529750, BE548934, BE314356, BF527194, AI018415, BE544804, AI192090, BF345146, BE539195, BE896937, AL037971, H79173, AA191007, AA160986, BF343228, AL036607, T96350, AI191902, AW246288, BE149595,

HPDRH78	248	992780	1 - 1583	15 - 1597	<p>BF967134, BE746173, T86587, BF724976, W52305, AA159846, BF757246, AA808915, BF966188, AW163313, AA635058, AW163830, AU137163, A1879210, AU134072, BE512816, AA410907, T07973, AL533419, AW162005, BF724415, AW364192, R84319, AL036626, T09356, AL036544, AA085075, BE279666, AW162094, A1816208, AA369795, AW160383, T75456, AA204760, BE707293, BF832811, H11161, BE708222, BF335706, BE697593, BF335701, AX015399, AR075662, D38585, U35048, A1222700, AK027071, AL138960, X62940, AF201285, L25785, and X97299.</p> <p>AL517707, AL526969, AL534602, AL517706, BE793392, BE793400, BE798802, BE74603, BE793463, BG179834, BE796319, BE730416, BE799085, BE622275, BE797197, BE895295, BF684516, BG180391, AA313808, BF128627, BE902688, BF974046, BF309165, BF035424, BE542126, BE378892, BE279546, BE389149, BE746282, BF980789, BE792649, AA143543, BE390945, BF939857, AA247475, BE254943, BF087367, AW602074, AA143677, AA669128, A1619455, A1885489, AW674128, T66216, AV653122, AW771167, AW673887, AW952242, W17242, AA465232, AA662828, AW156961, A1423378, C14781, AA847816, A1082555, AA064998, A1699796, A1634002, A1400301, AA976430, AA847635, BF129286, A1357386, A1371760, AA838647, AA465587, AA046948, A1083621, BE149761, A1252222, A1572527, AA907174, BF858322, AW247996, AA065085, AA366802, A1927121, AA366778, AW006612, AA001409, AL534601, BE859074, F12200, BF973830, AW904428, N89759, A1648415, BF090228, AA373821, BE936261, A1752839, AA610398, A1889695, R22510, AA383297, R22509, A1445855, D81188, D81094, C14780, F01851, D81093, AW472987, BF843018, AL037280, AW818769, A1801700, BE503553, H85986, A1251103, AW273610, F09830, AA321564, Z42323, D20815, BF747217, AA027150, BF746814, R12421, H71469, AA988870, AA835430, A1264946, T66149, AW839241, H86346, AA579666, BE538136, AV660656, AX011690, AF282851, AK000474, AP001714, AP000037, AP000105, AP000275, and AL355729.</p>
HLMHG68	249	992900	1 - 1331	15 - 1345	<p>BF967276, BF967822, BE675848, A1693547, AA398062, AW044341, AW117949, AW468685, A1801370, AA890730, AA778640, AW001899, AA456064, A1434131, BF508778, BE833021, AU145029, A1033982, A1826270, BG026214, AA455567, AA652457, BF108431, A1458156, AA918511, AA515452, AA631567, AA687760, AA573416, BE045477, F22701, BE546175, AA292780, AA477424, A1699125, AW770290, AA310438, AW884291, AA640186, AA290862, BE774653, A1686681, AA479585, BE881951, AA394172, A1394051, BF361999, AA291044, AA150391, BF855032, A1816954, BF737256, AA291855, BF869437, AA291733, BG259202, AL044192, AA768725, A1366983, A1701948, BF915315, A1926593, AW102900, A1345746, A1537516, AW079768, A1632981, A1608802, A1597805, A1636788, AA830821, A1050666, BF816031, A1923279, BF817746, A1951222, BF921215, BF913569, BF914101, BE393551, BE315058, AW083804, BF913568, AW129269, AW265004, A1699154, A1702540, N74355, BF305318, BE613727, BE965355, BF913615, AW301406, A1718161, A1923272,</p>

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HODFO57	250.	992973	1 - 2135	15 - 2149	AL521538, AU125521, BF793744, BG258951, BE796240, AU129772, BG256358, AW134800, BE253092, BE539282, BF822222, BE676509, AI884675, AI356274, AU159541, AI922366, BE676139, BF154835, AA522887, AI983195, AI652380, AA614362, AW193792, AI093421, AW474923, AA236204, BE939312, BE675234, AA131740, AL045292, BF478117, AU149161, AA781085, BE674720, AW514745, AI417244, AI093127, AV379958, AI276637, AA131671, BE252897, AW590126, AW379963, AW205128, AI289900, W28544, AA775698, BF589820, AW513803, BE257415, AA559118, AW571703, AI570252, AW630205, W56287, AW150930, BF746091, AI873877, AI813283, AI873584, BE939111, AW379959, AA256931, W20295,

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HOCZ44	251	993380	1 - 970	15 - 984		BE308448, AV733716, BF667373, BF971945, BE791557, BF207166, BF685157, BF680048, BE730232, BE744787, BE257947, BF684668, BF686755, BE795339, BF032897, BG115810, BF037117, BE796212, BE512992, BF694324, BF037939, BF244980, BE793024, BF975403, AV744973, AI196804, BF733159, AA074869, AV701912, AV964407, AA308585, AI201081, W31092, AI911189, AI187442, AI332998, AA49114, AA196803, AA677398, AA652508, AI832556, AI360813, AI479643, AI371725, AI949595, AI523836, AI338226, AA583945, AI160821, AA812681, AI955259, AI272799, BE786863, AA463761, AA133351, AW105647, AI687745, AA471119, AA417906, AV756337, AI028708, AA779378, AA806308, AA719870, AI804084, AA628636, AA713507, AI076158, AA758900, AI242445, AI738876, AA513306, AI081646, AA593880, AA478598, AI192864, AI084956, AA312835, BE163110, AI189240, AI401016, AA419554, AA229993, AV709297, AI871846, AA620875, AA468096, W42538, AI094068, AA357299, AI188600, AI274502, AV742900, AI187079, BE385728, AI243176, AI284416, AA657626, AA962082, AA479333, AA463687, BF309104, AI224529, F19538, AA468083, AA468047, BE359524, AA234166, AA234913, AI804825, AA318716, AA987467, AA318396, AW795107, AA449548, AI127473, AA234914, BE717214, AA233918, AI147167, AA721050, AA469001, BE281458, AI476030, AA482379, AA385197, W42473, AW873836, AA091369, AW844269, AA383017, AW844282, AI253673, BE698022, AA969703, AV300509, BE698050, AI220722, BF819540, N44134, AI003540, BE833240, BF374556, AA468927, AA720885, AI186421, AA872664, AA366125, BE549139, BF027226, AW794203, AA906776, AW403920, AA833536, AA887208, AL079619, AA187616, BF104085, AI371742, BF675494, Z20217, AW602656, AC006064, AF151075, AP001631, AP001748, AP002085, and A74500.
HPAMU38	252	993403	1 - 2925	15 - 2939		AL524221, BF974727, BE905660, BE906439, BF972299, BF339849, BF971432, BE871633, BG258581, BG027617, BG027987, AL043542, BE262313, BE547005, AW964993, BF129017, BE894197, BE859070, BG106537, BF304618, AA812224, BE882690, BF109975, BF541992, AI075752, BE735522, BF950143, AW408171, BG058798, N32170, AA861404, BF343941, AI859140, AA630418, AI524267, AI888719, AL043543, AI571362, BF972284, BF111665,

1873

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HODGN51	254	993754	1 - 648	15 - 662	AI207402, AW983839, AW983779, BE267153, AF074693, AW813858, BE393346, BE142616, AW819892, AW819887, BE161913, BE179562, BF343443, BE062392, BE143181, BE069054, BG104743, AW820198, AL157534, AW847202, BF686579, AW811905,

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HODCT60	255	993806	1 - 673	15 - 687	BG150704.
HAQBV81	256	993918	1 - 813	15 - 827	T68150, AA664288, AA113062, AL045561, H63748, BE350958, BF821840, AA190633, BG120327, BF994701, AW582857, and AW582794.
HDTGF49	257	993931	1 - 1643	15 - 1657	BF516217, AV732160, R83419, BG255616, BE171964, F27801, BG253577, AW474317, BE162826, AV755592, and AK002081.
HOGBN62	258	994134	1 - 642	15 - 656	W68274, AI073484, BE543503, AL524870, AL528375, AL529901, AL528409, AA528652, T38395, T58350, AL242994, AL048969, AA713712, BE154526, BE154518, BG111530, AA569631, AA484658, AW275432, AL269832, H90845, AW263396, AL523991, F13773, W03981, AA129133, BE154459, AA526426, AW855982, BE158756, BE158799, AA988320, AI768952, AA348511, AA569586, AW885762, AA224238, BG058309, AA210951, BF877700, AA283455, BF877694, AA934825, AW974136, BF978936, BG058309, AA210951, AW833189, BF977345, BE154446, AA069473, AW238386, AL611736, BE154584, BE154524, AA368073, AA599710, AA368633, AL369977, AA708889, AL134280, AA557764, AA372884, BE179742, AW438765, BF992129, BE739174, AA664942, BF810146, F00818, AW817905, BF244176, AA714276, BG006133, AI819525, AA720531, AA908331, AI378950, AA601237, AA910680, AW387775, BE179910, AW387778, AW572140, BF978162, AI500563, AA411171, BF691653, AW769859, AI354388, BF833448, AA635135, AW510403, AW473996, BE961047, AW409710, AV739833, AI690379, AV695910, AW410354, BF212465, BE870750, BF571687, BF978010, BF691393, F01694, BE777501, BF977222, BF978508, BF691774, BF211406, BF238352, BF979045, BF690603, BE961172, BF692655, BF572980, BF184128, BF571004, BF184981, BF692099, BE777568, BF692045, AA581352, AW820694, BG110818, AA993041, AA584133, AA594072, AA599115, AA599143, T50205, F00112, T84169, BE888068, AA828062, BE147527, AA669985, AA297199, BF762987, AW087537, BF213033, W02403, AI870453, AI919048, H70469, AA719201, AI831171, AA381216, AA101744, AA744084, BF676352, AA512999, T87481, F29968, BE002881, AI230815, BF803608, BE154517, AA745459, BF921846, AA744068, AA745533, R51854, AV694805, AW272389, AA745393, AA477103, AA639040, BF957365, BF915592, N38546, D29424, AI869406, AA985240, AW004922, BF831769, AL048090, AW192199, AW571499, T50255, BE886807, BE302658, AW439867, AA584814, BF917819, AI984742, BF879039, AA568127, H60396, AJ635245, AL039669, AA525753, AA569474, AW387786, AC022392, AL359339, AK023436, AX048077, AF132952, AC005154, AC002449, AC011290, AL031985, AL008628, Z70289, AL161938, AC012099, AC006028, AC006578, AC005520, AF196969, AC007487, AL031575, AL109843, AL030996, AC004914, AC005697, AC010582, AL159985, AL035405, U95739, AL161670, AC004980, AC005831, AC000120, AC078899, AP001409, AF008243, AF001417, AP000160, AP000018, AC005899, AP001635, AL033543, AC009312.

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HSKGR42	259	994234	1 - 536	15 - 550	BF665644, BE617899, AW975289, AW370221, BF700281, AU154495, BF334587, AW673900, AA648105, AA186388, AV758959, AI858160, BF088091, BF694157, AA659697, BF131572, AA134338, AJ914719, BG117553, N71529, AU155727, AA120820, AW363311, N22162, BE617450, BF155707, BE168417, BE879249, AU128878, AW996843, BG261212, AW576295, AW268074, AI343171, AI311237, AI335437, AI344929, AW274348, AI336661, BF239659, BF082539, BF438758, AI741448, BF108773, W73136, BE005344, BF829286, W73116, AI251367, AK000741, AK001701, AK001452, AK023438, and AF086334.
HOEBQ85	260	994356	1 - 1053	15 - 1067	BF980115, AJ056683, AW071598, AA393981, BE350760, BF508825, AA053954, BE048405, AA397906, AI336420, AI022052, BE253405, AA007404, AI090549, AI147131, AI298335, N69649, AW627842, AA723269, AI671126, AL043975, W58502, AI051785, AI670024,

HOPIG01	261	994336	1 - 1376	15 - 1390	AA639760, AL043976, BE410449, BE220726, BE728986, AW628468, AA707486, BE141443, AA034435, BE141442, AW386728, AL040334, BE304515, BE302700, BE304702, BE408918, BG165005, AA478114, AK024475, AL117435, and N71204. BE793380, BF966696, AL527978, AU142696, BG112976, BF038095, BF339980, BF346274, BF525737, BF343070, BE796871, AL660492, BE795029, BE740676, BF338457, BF342629, AW157045, AU142854, BE779472, BE791809, BF348176, BF340334, BG108431, BF341150, BE963752, BF337746, BF528606, BE799928, BE251212, BE795188, AU142971, AU123853, AA608630, BE799766, BF984658, BE793148, BG178895, AU142368, AU142683, BF313309, BF435460, BG026841, BF680862, AW163707, AI929171, BE293477, BE799635, BE871928, BE207262, AW276503, BE382663, BG056162, BF205980, AI858505, BF311248, AW250342, BG035351, AU119034, AI573104, AU132674, AW247120, BG056369, BE207051, AI566557, AA126454, BE293760, BF340125, BF343144, AU143032, BF341561, AA194148, BF206123, BE206913, BF317056, BE907374, BE249879, AA582085, BE907893, BF310434, AI887640, AW615498, AW245039, BE260787, BE618820, AI880285, BE791120, AI859252, BF526752, AU123414, BE464593, AA778344, BF316388, BE253881, AW157606, BG059864, AI418820, BF434994, AI360942, BE788830, AI097502, BE798646, AA770622, BF337854, AW087978, AI921292, BE348883, BE546108, AW732146, AI653881, BG059738, AI023190, BE792435, AA194087, AA595219, AI025155, AU159706, AI085502, AA911630, AA744512, BE973865, AA534937, AA743675, BE262210, AI421284, AA581421, BE545834, AA604154, AA609450, AU145465, BE206914, AW163012, AU160213, AA552532, AU129356, AI929749, AA541593, AI363424, AA434310, AA069319, AI359872, AA968682, AA526861, AU160054, BE312609, AA621196, AW328427, AW384946, AA565664, AI460077, AI929377, AV709913, AA100233, AW163104, AI083875, AI344608, AA682988, AW072500, AI241695, AI366155, AA931506, BF344959, AI340434, AI927283, BF568570, AW248160, BF344603, AA011195, AI459660, AA689477, AI342248, BE858289, AA132540, BF966506, BF958070, AI298268, BE253399, AA635801, AW751546, AA995595, BE390802, AI089995, BF725281, AI282676, AW604964, AI719470, AA583085, AA593293, BF315079, AA729139, AA069373, AI940441, D54574, AW384914, BE671540, AA340245, AW848886, AI003397, D54696, AA156911, AI312413, AA427771, AI167483, BF822526, AI334066, AA130945, AI758341, AI348853, AI701237, BG056893, D55009, AW578066, W07297, AW604991, BE617959, AI869294, AA854599, W27359, BF057992, BF718433, BF718300, AI184838, AA814125, AA088243, AA984724, W32696, AA856797, AA397722, AI858542, BF951374, AA811595, AI266757, BF945422, W32697, AA975437, AA508200, AA156608, AA135907, AI051113, AA017372, AW604994, AA641157, BF945444, BF945443, AA903069, H49325, AI345697, BE252817, AI056127, AW374724, L47647, M16364, M16451, AR084972, M11306, M13453, M14400, M57664, M74147, M74148, X15334, M18668, M74149, K02831, M11660, AF120106, M10012, X00954, AF274307, X53859, AC005781, AC007225, M60806, X96403, M21243, X96402, M21242.
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HKBAK06	262	994596	1 - 655	15 - 669	AA292552, BE569091, AA001348, BG034403, BF680183, BF982202, BF972408, AU134714, BG255510, BF038517, BE382500, BG117853, BE267636, AU133407, AA082436, BE780204, BE535736, W44552, AU122890, BF204311, BF972973, AA081745, BF026531, AU127144, BG029609, BE904738, AU122938, BF242872, BF309946, AW960304, BE297387, BE883368, BE261919, BF033958, BE897037, BF212585, AA158070, BE569085, AA292753, AA476873, BE884804, BE269819, BE900753, BE314366, BE786840, BF035084, BF726787, AA926959, AA177048, AI719075, BE279271, BE778624, AA469909, N49786, BE706261, BE972278, AV685130, AV713469, AV714168, AV687846, BF246905, AU126674, H77575, R97470, AA037172, BG104737, AA908783, AV714475, AI935150, AA926960, W76521, BG249990, BE892033, W04339, AA405677, BE255916, BG104736, AI857576, BG179540, AV698081, R98127, AA293140, AV692796, AW662396, AA910644, AW514667, AA584410, AA889955, AA459522, AV716974, AW371701, AA583187, H78746, AW371667, AI828996, BE903886, AI865147, T55938, R75953, BF910357, W21526, W72395, AI422691, H03285, T77589, H83186, AW069734, AW613002, BE566245, W25243, BG033485, AA872039, AA527373, BF746365, AI423153, AA776920, H72525, R99156, AW104725, H03513, AW024595, AA100926, N31428, AW262230, AA621337, AW972459, AI204630, T88980, BF900364, T29812, H98460, AA772418, BE909377, BF205360, AU154749, AW886710, BF900351, AA662522, AA282997, H42079, W80565, BF507531, W95096, W24270, AI630359, AI459432, AI033892, W25071, AI423513, R54703, AI090262, AI831360, AI312104, AI804532, AA627684, N95210, AA769633, AA617681, W25611, AA416871, AI094597, AW391855, AI139549, AA633648, AI075239, AI339996, AI991988, AA740817, AA701623, N78215, AA129784, AA399239, N86396, AI362835, AI034317, AI336880, H99551, N83673, AA480310, AI989380, AU149836, AA643280, AA932124, AU117372, BF793467, N92892.

HKGCN61	263	994664	1 - 1002	15 - 1016	<p>AI911822, AI085351, BF795654, BF514270, AV748036, AA978045, AI078708, AI146955, AI348243, AA876046, AI085031, AA507454, BE270172, AI494230, AA962596, W44561, AI492600, AI278887, AI041437, AU155591, T99630, W80435, AA765850, W95095, BE893793, BF752229, AA157451, N24127, AI361128, AA910586, AA235549, AI537692, AI46618, H47725, AW589407, BF108854, AW300738, AA459292, AA001979, N59755, AA398727, AI129015, BF792285, AA954344, H75312, X54941, AC005913, AB025409, and AC008473.</p> <p>AI526805, AL52675, BF568818, BF975676, BE378603, BE275224, AI924198, AA643194, AI309624, BF568408, BE908971, BF568499, BE385963, BF971390, BE262270, AI954015, BE389035, BF317394, AI862773, BE384108, BF316998, AW954240, BG255355, BE387330, BF215641, AI300492, AV705042, AI571484, AI708237, BE267988, AA772150, AL526773, AI963066, BE265217, AW583307, BE267984, BF207808, BE885366, AW082898, AI554351, AA905048, BG038692, BE858566, BF431959, BG031824, AW873616, AA484736, AI243757, AI924677, AW304210, AA056581, AW328052, BE386932, AI887613, N52247, AW015277, BF726042, AA037075, AI092433, AW583724, AW070340, AA446995, AI096768, AI039582, AU143962, AW021398, N39299, BF216019, AA682891, AA897545, AI241411, AA468723, AI027327, AA503806, BF569049, AA834926, AA902862, AV328127, AI091496, BE676690, AI376786, BF337861, R91343, AA448467, AA609074, AI358828, AA651870, AA143139, AA052970, AA911153, AW241215, AW290993, AI804639, AA001193, AW020020, AI024157, AW572581, AI866825, AW016319, BE907946, AW021471, AA805372, AW015233, H82552, AI400288, AA917723, AA938524, AV750655, AI037929, BE088452, AI673478, AA533610, AI290857, AW769953, W67130, R97256, AA904951, AW340505, H22433, AA053447, AI310161, F24749, BE185312, F19447, BE242972, AV746492, F28239, AA365755, H87901, H56065, F31714, AA969644, AI287714, N34577, AV660944, AW328053, R55213, AW028384, AA506078, AI050822, AA843353, AW572594, AA296650, AW884694, AI041792, W67129, AI357504, AA056685, BE677849, T84900, AI915408, AI678129, R55210, AI311793, R97020, AW151468, AI005405, AI393159, T91318, AI798212, AA770285, N91398, T55560, AA143379, BE170083, AA809332, BG010512, AA934707, N45147, AI282846, AA968881, H40291, H18341, BG029457, H38979, AW805564, BE936154, N69370, BF155976, N53131, AI918485, BF155969, BF155973, H87357, BF155972, T25428, BE938005, BF831914, AA588800, AI005569, AA885911, BE242874, BF088463, H56260, AU126287, AA889514, BE702510, BF957306, H22470, AA453054, H46707, BE185337, H39174, D20650, AK000574, AX015413, U47101, AY009128, AK022758, AY009127, AC008119, and AC007793.</p>
HTXDY55	264	994699	1 - 276	15 - 290	<p>BE241618, BF967213, AU136610, BF980823, BG167993, BE904497, BG166879, AA316320, BG108260, BF032916, BE219939, AA429187, AA446365, BE327680, AA121059, AI681670, AW651689, BG028658, AL523554, AI929475, BF210951, AI984608, AW367123, AA262627,</p>

HFOYI37	265	994776	1 - 739	15 - 753	BF966433, AF035606, AK001917, and U58773. BG109766, BG105926, BF692316, BF664251, BF688436, BE875390, BG109747, BG035909, BE970556, AW250576, BE900583, BG026679, BE878884, BF794165, BF976452, BE736120, BG031147, BE729357, BE877578, BE795468, BF688232, BE746139, BF245353, BF338554, BF244479, BG036485, BF982066, BF313910, BF036466, BG109842, BF791758, BG034461, BG117069, BF792758, BG114839, BG033722, BE886095, BG171042, BE257620, BF307047, BE735602, BE299813, BF342847, AV701221, BF663327, BE900645, BG251353, BF727139, AV743879, BE874785, BF983850, BG112494, BF793074, BF965863, BF663279, BG036333, AI751041, BE727591, BE889746, BG031486, AV734449, BE544132, BE254377, BG029536, BE270481, BF965283, AL535797, BG107168, BG258064, BE267387, BE872741, BE738044, AV752441, BE270455, BF797372, BF036710, BG113386, BF964816, BE786378, BE879576, BE904807, BG025904, AW014150, BF965061, BE728776, BE883341, BE260961, BF126057, BE907972, BF718407, BE905940, BE905659, BF239138, BF718612, BG122417, BG256185, BE728227, BE312855, BF240138, BF242457, AA642852, BE880883, BF718532, BE538681, AA307553, BE538643, BG029238, BF681352, AV743427, BE787767, AW327840, BF212711, BF214381, BE906403, BG120301, BF038389, BF032831, BF689246, AA308582, BE884573, BE568338, BG112395, BF718776, AA316955, BE737786, AA535287, BF102789, BE881558, AA316284, AA308670, BE874983, AA316553, BF718683, BF029119, D56272, BE737963, BG115963, AV739694, D51124, BE565428, BE738399, AV738913, AV712380, BF718622, BE784801, BE877028, BE865693, BG169727, F20819, BE298062, BF211274, BF315518, T27636, F24452, BE739645, BE738206, AW068298, BE261442, BE738273, BG034437, F37402, BF571319, BE395762, BF310625, BF697600, BE313174, BF244308, BF303726, F25324, F20636, AW957333, BE563923, BF303651, AA146868, BG110622, AA315892, N77939, BF571305, BF718598, F33134, BF125885, BE960878, AV738228, AW408000, BF210245, BF029247, AW327881, BF700470, F20282, BF238356, BF245722, F30691, AV710336, F30820, AV738364, BE906206, F27818, AA306499, BF215958, AL036559, AW404866, BE790264, BE277269, AA143290, AV724929, BF212390, AA157054, BF796856, BE277011, BE514876, BE389163, W03894, BF215956, AA385201, F24576, F28257, AA501970, AW022377, AV708457, AA533618, BF718795, F32109, BF055644, BF240053, F32578, BF238936, F30162, AA179118, AW021281, F31767, BF185361, BF791484, BE258863, AW020382, F26077, AL309282, BF669141, F31195, F26670, BE734016, AI525222, F31722, F22445, F27271, BE739184, H02747, AW518445, AW328274, F27843, AW024028, D14530, AC010598, AC005406, X77398, AB007158, AX046357, AR066494, AR060234, AR069079, AR043113, and AA541570. BF982594, AA304945, BE786293, AA355289, BE882518, BG164113, BG036187, AW945552, AL522242, AL521727, BF345678, AL533751, BE018492, AA312114, BF210611, BE886709, AA495817, BF020297, W72340, BF968410, AA477457, N79824, AI669118, AI245484,
HOFNL18	266	994874	1 - 393	15 - 407	

HOFNT57	267	994954	1 - 1163	15 - 1177	AI372958, AW079905, N21556, AI093765, AW450650, AA099228, R56490, H15484, AW451773, BE466523, BF448069, AW236015, AW466866, BF591093, BF742982, AL080166, and AL031432. AU130186, AL532858, AU143566, BG032538, BE731387, BG178926, BF246251, BE546764, AI130008, BE882058, BE900653, BE901813, BF131040, AW238927, BE278938, BE280397, AA146802, BG258310, BE280706, AA037291, BF130537, AW408060, BF671218, AA281910, BE958235, AW958055, BE958177, BE281535, AA304757, BF698291, BF082842, BF667061, AI378241, AA304345, BF155007, BE855677, BF196802, AA380691, AW963766, AA878646, AI702569, AW026139, AW372761, AA635825, BE855640, AW372751, BF733132, AI472824, AI016431, AA843477, AA887947, AI378170, AA744678, AI361091, AI081395, AW516559, AI003236, AA146803, AA767727, N34655, AI399815, AA380690, AW856740, AI080717, AA962414, AA661648, AI983339, BF476713, AW088309, AW304176, BE719113, AA961155, AW189866, and Y11651.
HCBMT45	268	994993	1 - 1656	15 - 1670	AL524032, AL520718, BF343440, BG114926, BG163566, AW749600, AI628088, BE903299, BF348876, BE902526, BF036229, AU121257, W47499, BF348874, BE070481, AW875044, AA326810, W04800, AW838268, BE671868, BF357960, BE547306, BF888235, BG114819, AW937280, AA434529, BE070427, AA004472, U92010, and AK022138.
HATDZ56	269	995200	1 - 1879	15 - 1893	AU117737, AU119363, BF981791, AI126717, AI052256, AU121212, BG165314, BE902257, BE536040, BG259893, AU142181, BF342007, BG164121, BG111390, BE898067, BG028752, AW189938, AU135622, BG118715, BF795161, BG169327, BG121236, BG028368, AW070663, AI885180, BE880899, BE881172, AA745594, BF306702, BG107907, BF740223, Z99376, BE539928, BE892210, BF220065, AI014817, BG249687, BE880172, AW239211, AI784576, AW073683, AA524748, BF528854, BF665628, AW327439, BE779442, BF792343, AW276639, BG122906, AW872951, N36799, AI608763, BE783594, BG231999, AA627848, BE546358, AW247076, BE328479, AI127547, BE614484, BG179876, AW960374, BF343168, BE093813, BE958181, AA166916, AW327238, AA568685, BE464835, Z99375, AA700740, AA740916, AU150439, BG033007, AA573156, AW631056, BG177074, AA099018, AI051506, AA074799, AA812422, BE613976, AA835672, AW627745, AW976548, AI185757, AA503846, AA761648, AA592898, BG114482, AA160273, AW029151, BE546491, AW517165, AA451628, AW250428, BE958175, AI138225, AA809470, W63552, AA828239, AW327612, AI371140, AI371046, AI004126, AI089539, BE539342, AU145724, AA127406, AI537332, AI190076, AA687268, BF381173, AA715174, BE206290, AI073676, AU128126, AA167073, AI278484, AA75540, AI923795, BE535848, AA524391, AA978034, W88636, AA768416, AI635344, AI025865, AA992622, AW403551, AA393865, AA721424, AI024400, AW362155, AA962673, AA856908, AA173982, W73908, AA314538, AI031946, AA593126, AA031733, AI167830, BE936495, AA100657, AI922493, AA888675, H83589, AU123056, R54097, BE697208, AW819111, AI380802, BE043974, AI752947, AI761093, AI033288,

HOCQ144	270	993229	1 - 715	15 - 729	<p>AA506081, BE697241, AA515785, AI491801, AI953284, AA649193, AA085335, AU156182, AA127405, AA076411, AA075012, W76601, AA305905, AA450223, AI039462, BF676192, AA112634, AA889213, W74770, AA074990, AA082732, AA725074, AA565437, AA009468, BE539594, AW079297, AA090906, AA027240, BF436509, AI064753, AW341032, BE799859, BE697250, W24030, AA076267, H00352, AA173626, AI380804, AA164763, W88554, AW105351, BF819169, AA076266, AW021312, W52167, BE697248, AA693887, BF955879, BE843057, AA403080, AA031732, AI249663, R89292, R51433, H02543, N52907, BE710775, BE183483, AA127505, BE709804, AA514558, AA164762, AA113337, AI282747, AA411811, AI459951, AW327440, AA133539, BF743248, F06634, BE081646, AA933718, AI197787, BE707578, W85987, BE392490, AA160272, BF798811, AA314358, AW393147, BF798816, AW662031, C00036, AA639385, F25558, BF679367, AI696072, H02544, H71452, AA361575, AA115764, AI720134, R54151, M29536, X73836, AL031668, AC007405, AJ294707, AC010738, AL161670, AC007934, AF076927, T47873, T73141, T74664, R07722, R07723, R09847, R10017, R11641, T83787, R15278, R16766, H47662, H47972, R89293, R93621, R99520, H94038, N45959, N55602, W73014, AA009700, AA027239, AA053334, AA058648, AA076505, AA179728, AA191273, AA588847, AA628031, AA738408, AA864670, AA876048, AA903779, AA910612, AA974650, AI083791, AA127491, AA782268, AA969406, T11052, F05216, AI380120, AI201954, AI476203, AI126113, AI300209, AI686294, AI686637, AI688217, AW166745, and AW197934.</p> <p>AI831252, AI650374, BF061759, BF057060, BE797203, AI935139, BF061760, AW005769, AI417343, BF311313, AA554943, BE891954, BF685276, AI246563, BE618097, BG032880, BE397206, AI354680, BF976708, BF797333, BE744727, BE538158, BE907169, BE618643, BG164883, BE885647, AW274491, BE295294, BF237549, BE552307, AA160710, BG109868, BF594273, BE886498, AW080931, BE504728, BE559663, AI660049, BG164638, AI637467, BE900800, AU123019, AA777748, AI808876, AI380738, BF684237, AI270758, BF973412, BE895506, AA564413, BF310917, AW020646, AI281284, AI203218, AA403150, AI368831, AA401483, BE268039, AA913021, AI264541, AA305922, AA700029, AA705555, AI097153, AA430504, AA149943, N75989, BG119145, AA629934, AW966695, AA913020, AW472855, AI308917, BF981762, BE784527, AW027600, BF082396, BF974975, AA136118, BF057814, AA936828, BF082395, AA401609, AI867762, AI264545, AA974269, AA633277, T86566, AA834364, BE789276, AW263663, AI133562, BF594511, BE904898, AA596035, AA977854, AA315182, BG033608, AW016092, AW404348, AW025749, AI884737, AI250679, T86744, BF345117, N89562, BE905692, AW079637, BF762047, AI565861, R80990, AW237726, R94970, AI695116, BE901072, AW188591, AA382274, BE205766, BE550389, R95056, AI799019, AW590111, AA719022, AI909396, AI288271, AI909403, R80790, AA760768, AW970688, AI909375, AI858174, AW849952, AW807662, BF809022, AA576241, AI590646, BF082228, BE009475, BF922727, AA403208, N88948, BE926176, BE009463, BE294296,</p>
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HNOJG43	271	995562	1 - 1016	15 - 1030		BF530931, BE887433, AA700637, BG031212, BE787285, BG032265, BG250289, BE872777, BF975368, BE888350, BG259501, BG178671, BG121264, BE385572, BG025460, AU123889, BG120763, BG176849, BE018986, BG251569, BF310080, BF796217, AL040945, BE292902, BE867768, BE778230, BE313767, BE355894, AW651694, BF203366, BE885600, BE018210, AA568104, BE263239, AW244142, BE890472, AW069664, AA165235, BG029628, AA311257, BG028398, W26906, BE873320, H29111, AA379686, BF081407, AW732839, AA165234, AA379707, AW408242, H92844, AA309679, AW732846, AA355319, AW244134, AV739862, BG030885, AB040387, H17153, AA337612, BE384475, BF811815, AA079621, BE385617, AA327809, AA453327, N89415, BF757893, AV737107, BF085282, BF358015, AL904702, AI571790, BF088476, AA028062, AA028061, AW262589, AA877545, AV737069, AL040946, AA149034, AI911678, AI264209, AA582725, AA594933, AW513329, AA488110, BG231727, AW612918, BE301689, AW673154, BE208801, AI885475, BE207777, AI678902, AA879144, AA588402, AV708243, AV708606, AJ904760, AW899615, AW971745, BE208405, AA617827, BE837271, AA772717, AI281987, AW804686, AW392670, BE695785, AW861944, AA612842, AL119396, AW604723, U46349, AL119355, AW858526, AW858525, AL119522, F30775, BF926800, Z99396, U46351, AW877209, AL119319, AL119457, BF858264, AW190557, F21301, BF360811, AI685800, AL119324, AI311525, AA970639, AA954246, AA151031, AW276144, AA463498, AI302605, F36969, AA971107, BE705903, AA745842, AA884129, AA613325, AA779167, AA832350, AA907225, AW615590, BE705906, AW577135, AL119483, AW372827, AW384394, AL134525, AW861889, AW858455, AW363220, AL119497, AL119484, AL119363, AL119391, AL119401, U46350, U46347, AL119443, BF868687, AL119444, U46341, AL037205, AI904745, AL119341, BF868684, BF868697, AV744583, AW604726, AL119439, BE705905, U46345, U46346, AL134538, AL119418, AL119335, AI142137, AW511430, BE705905, U46345, U46346, AL042544, BE705904, AL119399, AL042984, AL119496, AW861954, AI142132, AL043039, AL043033, AL042614, AL043029, AL042450, AL043011, AL042965, AL042542, AI142139, AL042975, AL119464, AL043003, Y08915, E12650, AL158141, AL049776, L31652, AF000577, AJ223156, AJ223157, AB026436, AR080280, AX046357, AR060234, AR069079, AR066494, AR054110, AJ251859, AX030435, A81671, and AJ279014.
HSP8B95	272	995590	1 - 979	15 - 993		AL523089, BE735213, BF690068, AI192441, BE793432, BE794150, AA630330, BE791668, AL523088, BE901445, BE793552, BE515306, BE76069, BF689238, BF027098, BE900126, BE562743, BE747331, BE791104, BF973064, BE733064, BE620825, AL529029, BF025872, BE311984, BE744764, AA641149, AI971403, AI049983, BE387021, BG033880, BE515093, BE796039, BG034885, BF796669, BF026756, BF685347, BG030617, BF688429, BF794151, BG117363, BG169033, BE730729, BE797697, BE728295, AI680328, BG033071, BE908570.

1885

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HCORG29	273	993806	1 - 1461	15 - 1475			

HCRNO02	274	995894	1 - 525	15 - 539	BE348752, BG113168, AA992688, AV691812, AA458647, U30825, AL021546, AP001725, AP000692, U87279, U87277, U87278, AA877919, AA011220, and R29605. AI087863, AW205361, W67736, AW135527, BF112018, AI261883, BE886105, AI954585, BF592922, AA922244, AV726182, BF033136, AW402172, BE889683, AI347209, AW605270, AW949405, AU134577, BE539958, AW605272, AW418630, AI525630, AW601391, AA321817, BF115737, AV689056, BE565311, BF572563, AI933896, BE894922, BF8553166, AW605273, AI879891, AI692564, BE909642, AW270487, BF669959, AW084360, AA602961, AI101742, AW612752, BF757848, BF797062, BF977586, AU142848, W25008, AV708387, AA306002, AW614255, AW377570, AV728041, AA016984, BF755701, AI802071, W67735, BE885363, BE884342, BE890337, AA377036, AA092406, R27168, AA069079, BF760715, U18914, S82081, and U35428.
HCB0179	275	996247	1 - 879	15 - 893	BF344503, BG255745, BE884245, BE315407, BG180340, AI114464, AI744084, BF003120, AW451065, AI888992, AI431740, BF568084, AI380546, AI656998, AW300527, AI433538, BE464324, AI160803, AI874272, BF476317, AI916753, AI638710, AI952946, AA009412, AI888867, AI796216, AW051510, AI871622, AI382137, AI570640, AA136115, AA009693, AW237382, BF592115, AI916760, BF102764, BG256114, AI357604, AA206165, BF059310, BF874841, AA767400, AA962144, AV694380, AI223191, AW242929, BE791944, AV707942, AA136067, AA450010, AA047548, BF591090, AA057784, AI671950, AI803084, AA452628, AI183340, BF591405, AI810350, AW015645, AI217043, AI818009, AW182191, AI564896, AW075602, AW014905, AI357555, AI766792, AA566017, AI336131, D20857, BF668498, AI751642, BF568923, BE799110, AI364812, BE673585, BF217847, AI873178, BF954384, D31155, AI969843, BF939241, AA329597, AV169141, BF221870, AK000857, and AC003112.
HVCAB73	276	996337	1 - 1513	15 - 1527	AL518842, AU118468, AU117968, AL517493, AU117660, AU119978, AU142310, BE790938, AU142367, BF972250, BF984978, BG252995, BF684869, BE559749, BE560314, BE902291, AU128821, BE795645, BG032172, AU123321, BG110982, BE792404, BE300141, BF982746, BG113974, BF984581, BF794875, BE907107, BG257415, BF309826, BE795893, BE792464, BG028288, BF965624, BE735087, BF976730, BE799193, BF305694, AU142239, BG257876, BF529711, BE613812, BE614422, BE791689, BE885879, AL517492, BE409756, AU133389, BE783011, BG032093, BG114278, BE901386, BE618095, BG122124, BF026898, BG256177, BG251091, BE612467, BF311267, BE618641, BG107568, BE888894, BG180037, BG028062, BE278994, BE614277, BE891718, BE868694, AW947123, BE298422, BE908780, BE278771, BF979838, BG121166, AV759228, BG116644, BG108186, BE272582, BE746783, BE785332, BF316338, BF973741, BE730725, BF979294, AV698719, AL040837, BG106907, AV706709, BF311733, AA206423, AV706293, BE789022, AV706359, BE259394, BF983820, AV713317, BE543291, BF980476, BF310651, BG031342, AU134782, BG261061, BG251520, BF981835, BE396863, BG028634, AW946539, AV653256, AL035921, BE275555, BE612914, BG026070,

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HSDJH04	277	996619	1 - 926	15 - 940	BE904901, BG168030, BE878351, BG259171, AW732563, N24355, AV724626, F24474, AV722309, AI261328, AW328428, BE674638, BF345021, BG255797, AA532928, F37428, AI370570, F22370, F32515, AA296010, AW070530, F33022, F31501, AA918040, F22734, BE905663, AI022292, AI929756, AI300554, AI718610, AI718646, F33373, BF793297, BF793269, BE875134, AI339442, BE855791, AI342832, AI735425, F33367, AA603132, AI695802, BE730633, AA429820, AI024066, AA031459, AA532849, AA772747, F37419, AA136087, AA873691, AI017375, AA625381, AW467861, AA994440, F30932, AA513042, AI191651, AA907866, R09570, F19496, AV741591, W52552, AI497696, BF035508, AA770559, AI369674, AA506595, AI0279742, AI302456, AA320307, AA303547, AA452025, AW627910, AI418637, R28551, BE907102, BF965846, R07147, H51877, F35932, H27315, F29523, F28344, AA548806, AA535397, AA148236, R07146, F21114, BG254257, BF185406, AA555277, AA304129, AI968949, R09479, AA570105, AA876458, AI160002, AA304639,

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HSOANI8	278	996804	1 - 616	15 - 630		<p>AA604207, BF568246, BF685919, AA769075, AI829363, AI160465, AW611817, AI365676, AA909715, BE504747, AI333819, BF828573, AI523938, BF989966, AA768116, BF091370, AI168213, AI658820, BE390437, W56333, BF987457, BE797515, BG110670, BF974205, BE745959, AI652259, BE563589, AI097626, W56246, BE880543, AU141729, AL134271, BE933141, C75024, AI933359, BF087614, BE279562, AI475845, BF314042, AI936721, BE735049, BE298845, AI933320, BE265132, AW512295, BF802106, AW498827, AI431995, AI283491, BE222982, AW449482, AA808235, BE392368, AI763116, AA814951, AA505663, AW274238, AA056204, W56326, BF036391, W56359, BE900914, AI656477, BE818925, AW162674, BF309126, BE700914, BE254984, AA055543, AI760331, BF827226, BE395139, BF229557, AI369700, AI369699, AI197948, BE048398, H81842, AW242467, BE818985, BF307576, BE617252, BE514899, BF125485, AI972328, H44030, BE742153, BF828519, BE793542, AI082336, AA459967, BE812253, BE184274, AU130605, Z25808, M77198, M95936, D30041, U22445, X65687, X61037, and AC002364.</p> <p>AL530933, BE744244, BE886518, BF307394, BE886078, AA521306, AI346509, AW014616, AU154742, AU160803, BF307330, AW662413, AW043807, AW009556, BF434533, AU159740, BE350868, AI530932, AU153954, AA031263, BF897515, AU153595, BF223978, AU146675, AU152826, AA524349, AU143944, AI340333, AW128969, AI826348, AW305306, BF062439, AI564106, AW304346, H71784, BE878383, AI161344, AI262022, BE504256, BE326650, BE504858, AI039240, AW162372, AI962737, AI309252, N76604, AI815896, W69677, N94090, AI935385, AW271271, AI948839, AA010408, BG004347, BF091918, AW513419, AI289056, BF055132, AI638198, BE219405, AW008633, BE676811, AA532714, AA632276, AA040180, N54492, AA570140, R98609, AW025830, W69676, AW510423, AW073235, AI694628, R15330, H71783, AI886412, AA582538, BF798373, AA635538, AW578114, N69270, R98610, AI917180, AW014409, BF886580, AI383709, AW078973,</p>
HAHCK58	281	997127	1 - 1797	15 - 1811		
HHEHF49	279	996874	1 - 788	15 - 802		
HCHCF36	280	996903	1 - 838	15 - 852		

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HETI06	282	997165	1 - 371	15 - 385		W04730, BE266365, AI133648, BE793925, BE59709, BE790580, AL518648, BE865465, AL530857, BF132480, BE740884, BE795484, BE793563, AI304872, AA741065, BE865290, BF683810, W80875, AA122216, AA308813, AA284386, BF326544, AL355392, AF161516, AK023992, and AF152097.
HAPOE30	283	997595	1 - 2897	15 - 2911		AU117247, AI126490, AV717396, BG104731, BE501285, BF056914, AI094852, BF796496, BF063299, BG256800, AA454987, AA454988, BG114650, AW080282, AW966631, AW168948, AI336277, AA772322, BE220380, AI859792, AI417858, BE466892, AW103075, AU159373, BE504285, AA918401, AI432403, BG230590, BE673392, BE670742, BF725058, AA410511, BE540683, AA083340, AW594055, AA418120, AI949050, BF112235, AU144138, AA679107, AI708897, AI376002, N78061, AA477527, AI700609, AA828552, AI991181, AA417942, AW168995, AI139660, AI021901, N25477, AI004673, AA411601, AA024709, N49529, AA693511, AI985704, BF343591, W60152, AA778693, AA180440, AA418978, AI767329, BE350692, AI242979, AA577408, W51942, AA524990, AW195065, AW028525, AW953384, N49287, AA418805, AW243797, AI246226, AA024727, AW008941, AA757727, AA527910, AA074180, C05139, R67172, BF348935, AA813662, AW971329, W94122, AW614468, AW513979, N58471, AI868472, AW182171, AA707715, AI183895, AI927765, AI620107, BF508176, R59987, AI654118, AW204432, H44803, AA352918, AA295664, AI499474, AA363317, R09270, R26284, AI784077, AA383639, R25459, H95934, AI572507, BE160130, AA885993, AA363316, R35885, R35884, AW993480, AW023692, AA721410, R36442, AA251090, AI864808, W94018, AA579940, AI872496, AI249523, AW993214, R36160, BE817052, R58756, AL513907, AV729890, AL514919, AL514627, AL513597, BF054789, AI985363, AL121270, AL514691, AV655645, AL514791, AW071349, AW827203,



AA362948, AL514087, BG036846, AI868831, AW303152, AI349772, AL515041, AL135661,  
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 BG260037, AV757455, AL046849, BG107847, BG108147, AV723062, AL045500, AV682772,  
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 AJ242859, AF090903, A08916, AL390167, AL080060, AF218014, AL049452, AF113690,  
 AF111847, I89947, AL359596, S68736, AK000212, AF130092, AF119878, AL110221,  
 AL359601, AL050116, AF113676, AB050510, AR059958, AB047615, AF106862, U42766,  
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 AL133075, AF119875, AB048964, AL050108, AB041801, AX019230, A08913, AL162083,  
 AK025084, AK025958, X84990, AK025339, AK026045, AL162006, AX019229, AL049466,  
 AL096744, AB019365, AF017152, AF113677, AL133557, Y16645, AL080124, Y11254,  
 AL049314, AL137557, U91329, AF113019, AL050277, AF219137, AL080137, AF119899,  
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 X63574, AJ000937, AL133565, AL122121, E07361, AL137459, AK026533, AL122123,  
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HRGDC33	284	997862	1 - 1826	15 - 1840	AB047904, AL117583, AK026504, AB052200, AL049464, AF119871, AK000614, AF130099, AL049300, AJ238278, AK026534, A08910, AF130066, AF116682, E02349, AK024524, AK026532, AF130077, AF177336, AF130110, A08912, AL137271, AK026959, AK026086, AK026480, X70685, AF112211, AL050024, AL049382, AL133258, AK027113, AK025414, AF067728, X042059, S61953, AL117435, AK000323, U72620, E05822, AF183393, AB049892, AF118094, AK025967, AK025391, AP001666, AX026824, AX026823, A58524, A58523, AB048974, AC009364, AL137648, AF130087, AP001346, AK026526, AK000432, AF116610, AF175983, AK027204, AK026642, R09167, AA476684, AA904630, D25837, and AI873137.
HMTMB91	285	997873	1 - 1162	15 - 1176	AL530171, BG167455, AW341526, AA143021, AI621276, BE695940, BF540992, BE695955, N34863, AW593873, AL530172, AW196758, BF223067, BF223008, BG054486, AI392748, AI807788, AI147923, BF666752, AI634124, AW204647, BF438607, AA293879, BF476285, BE866767, AW276898, BF434775, BF103871, AV712302, AV711800, BF983985, AI392984, R63482, AI680602, R63481, BF507828, BF688635, BF908078, AI795905, AI444949, BG178163, BE048998, AW269138, BF689020, AA251885, AA150912, BE566036, AW84530, F34562, AW801105, AA872641, AA321262, AW082114, BE001578, AW674054, AW961602, BF913145, AA937288, F29869, AI924910, AI908447, AW800341, BF746755, BF215227, N43936, BF676410, AI969745, BF061733, BF796686, AI990282, AW884388, AI109918, AP000568, AP001676, and AR022362.
HFAAD07	286	998059	1 - 988	15 - 1002	AV755264, BF577013, AI923558, AW268804, AW469653, AA760854, AA580566, AA580691, AA836465, BF899990, BF926478, AA768321, BF514639, BF088900, AW392416, AI885519, BF061715, BE888827, AW129764, AI951031, AW858464, AI936012, T40389, AW392849, AI820997, AW858513, BF950338, AW836417, AW392833, AI821288, BE503330, AW837691, AW750461, BG114047, AI275943, AF109907, AC004858, Y12017, AK026107, AR060046, and AR060053.
HE8TG67	287	998517	1 - 1884	15 - 1898	AV684787, BE674615, AI887753, BG258585, BE218749, BF224413, BG165003, AI702451, BF224407, AA548464, AI978680, AA071156, AA191693, BF570780, BE738364, AI797896, AI826052, AA041342, AW014334, T62575, AA197202, AI084270, AW375498, BE775118, BF333162, AA188647, BF431428, AU155686, AA602203, BF751398, BF365027, BF155009, HI0377, H20737, T63199, AU117290, R71297, AI829554, BE645507, BE815630, BE247171, BE701182, T62541, AI659397, AI868867, AI810306, R40856, BG110361, AI701277, AA602213, T62616, AI221666, AA070862, AA860281, BF718478, AA191265, BF088816, BE090765, BE840583, D25992, BE704032, BF692434, AW754457, AW363933, BE540276, AI217112, AA528408, BF981414, BG015645, AI633390, AV727030, AI199435, AK023434, AB029036, AJ132948, AF119043, AL035410, and AK021491.
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<p>             BG170064, BE299680, AL517777, AL535620, BG104730, AV728438, AA639215, AA555235, BG034845, AW939741, BF339759, BF813789, AA772354, BF569960, AW245418, BE904810, AA700011, AW245455, BF954453, BF526361, AA610582, AA618009, AA482569, AA861062, AA555035, AI040983, AI819039, BF569170, AA521380, AI983888, BF530869, BE163540, W94704, AU147292, BE620286, AW250767, AI102613, AW069495, BF793946, AA701091, AW250019, AU155225, AA449739, AI924565, AU555236, AW874021, AW001469, AU150827, BE208088, AU154343, AA666235, BF594057, AU148334, AW043731, BE300631, AI159873, AA057396, AU144390, AA527772, AU147764, AI094607, AI052499, AI139248, AI366151, BF732773, AU143930, AA402208, W79479, AA477554, AI989370, AI095433, BE621093, AI049797, BF888236, AI983030, AI338299, AA402755, N24100, AI131290, BF793622, AA838250, BG109583, BF699040, AI269227, AU151552, AI333121, BF811358, BF907598, AA581533, BF433802, AA195604, AI050079, H39825, AU144776, AW069554, AA037083, AI280691, AI018103, AU157349, AA620559, BE206615, AI754976, AI081124, W94605, AI081123, BE350280, AA706590, AA314919, AA651856, BE253662, AA861056, AA071324, AU157614, AW881111, AU153214, AA719876, AA181563, BF690521, AA808269, AA723095, AI560861, AL516662, AU155846, BF093342, AI027763, AA565838, AI139682, AU154971, AA642695, W61345, AA404305, AA565530, AI185667, BE620819, AI283202, AU155712, BF089802, W61344, R79062, H27968, D29064, AW050706, AU158884, AA427413, W07813, AA477671, AI079573, R87349, BF841432, BF307440, H39826, AA404670, AI623515, H51138, AA513633, AA723537, BF530713, R88416, AI196631, R72209, N24999, AW248474, AI249357, AI079657, AI302390, H00687, R85477, AA622001, AA479932, W68598, R76453, R72512, H26186, AA081465, F37521, AI797711, H51406, BE539340, AA292020, AI372748, BF888556, H80260, BF888240, T08241, AA926863, AI348037, AA070621, BF940573, AA132775, AA716732, AA021203, BE279033, AA083239, BG106905, R51115, AV721285, AI198296, H43462, AA909846, AA122384, AW369503, AA602541, BE559727, AA488065, R87334, AA122383, AA657746, AI208674, AA083702, AV723723, AI125149, BG255449, AV721284, H06257, H51448, AA074046, AI088433, W56259, AW615762, BE270473, AA293301, AA815062, R52926, W60481, AA468007, AA496899, AI119324, BG008464, AA341161, BF332897, F01127, F36977, AI286077, AA936774, AX015425, D63475, U36188, U27106, M23674, AF001923, AF001922, AI389935, AI442082, AF078844, AF079763, AI157483, AI162004, E06743, AK024524, AK026797, AF151076, AK000421, AK026164, AK027173, AI389939, AF113694, AK025084, AF120268, AF217982, X57961, AF111847, E01614, E13364, X96540, AI137271, AF016271, AK026592, I48978, AB047904, AF217991, AF113019, AI161953, AF057300, AF057299, AF116631, AK026342, AF069506, AX014095, AF271786, Y09972, AI110222, AF097996, AK026353, AF141289, AR070212, AB038698, AK026631, Y10080, AB034701, AF130059, AB019565, AB049892, I89947, S63521, A08916, A90832, AF094480,           </p>					
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HACNC39	288	998533	1 - 527	15 - 541	<p>           BG258323, AV726190, BG059174, BF031580, AW247693, AV733393, BF673590, BE393632, AV718256, W33034, BG223143, BG027098, AA316722, BF540944, AV740290, BE620501, AA761185, W76104, BE880515, W72590, AV712501, AI373016, AW951730, BF343423, AI301029, AW516518, BE336891, AI973019, AW954688, BE267264, F19333, AA642858, AW275727, F24037, BE886443, R98379, AA293612, BG029810, AI074416, AV682189, T30842, AI193781, AI709082, AA010642, BG178022, BE206642, AW163422, AI369744, BE737738, AA972242, AA505959, W30911, AA622015, AI479908, N39461, N99973, R89095, F24482, AA081027, AA502036, R89203, AA035242, AV758359, AA573301, BG116673, BF976770, AI205784, W69222, AI301695, H55975, AA081028, BF028555, N95321, W01264, AI719663, R98380, AA861810, W07432, BE744309, W57656, AA927506, AI719437, AA226340, AA226339, AA659132, H55976, AA635460, BE263378, AW004852, BF208315, AI096433, AI885213, AI097113, BE858122, AA935727, AA935732, T64927, AA128637, AI282165, AI299205, D31544, AI087422, AI299261, AA977268, AI493422, AA535488, AA927717, BE738497, AI028146, AI027821, AI288435, AI590079, AV744150, AI758305, F32365, AA601928, AA862695, AA910891, BF082399, AI867500, AA601890, W69078, AA535582, AA011251, F22069, AW162386, AI554628, AW157546, AA514029, AA527091, AA514433, AA948196, AA307500, AW163423, AW841585, AI266428, F36879, AA304694, AI277191, BE620900, T34355, BF687997, D11824, F29996, AA127824, T19184, BF898606, AA852606, AA480469, AA385328, AA046538, BE045065, BF678637, AI880263, AA128770, T39525, AA837248, R66514, T67659, AI580758, N73968, BE567125, BF217569, AA680363, AA301822, AA055001, BF246041, T32179, AI879869, AI143015, AI141685, AA010673, AA177089, R67830, AW964427, R30686, AA973995, AA572821, AA282316, T30691, AV715207, BF743095, W24587, AI488069, AA321070, AA358416, AI445120, AA996068, AI014448, AA908418, AA931480, AI148889, AW583730, BE045228, AA045468, AI467821, AW583317, AA308501, BE049525, AA962130, AI148886, H47357, F37883, F27165, N70956, W35401, AW151841, AI148586, BE833126, F31392, F17340, N75848, BE174000, W03741, BF819345, AA092713, BF541948, BF819342, AC008752, and AF318186.         </p>
HCOQP78	289	998901	1 - 1051	15 - 1065	<p>           BF038501, BE743899, BF032818, AA587273, AI470221, BE501242, AI566249, AW590780, AI963941, AI916929, AA933987, AI656124, BE672062, BF508514, AW873183, AW801187, AW610294, AW998772, AI914774, AW610295, BF915088, AW998876, AA320217, AA343629, AW965060, AA401047, AA400995, AB008927, AB008390, AF055982, AB009849, AF095742, AX002035, AF095743, AF251125, AF243527, AC011473, AB012761, AB010780, and AX002037.         </p>
HCGMA67	290	998905	1 - 2397	15 - 2411	<p>           AL516908, AL529636, AL526532, AL528012, AL522876, AL521127, AL526488, AL521128, AL516907, AL531189, AU122740, BE745665, BE250550, AU119700, AI743606, BE798628, BE736968, AU125167, BE797870, BG112405, BE902115, BE560381, BE734679, BE793368, BE796959, BE620400, BE268360, BE736647, BE902108, BE728049, BE796873, BE870756,         </p>

AW411493, BE270572, AU133808, BG121078, AU133710, BF686594, BE910106, BE257320, BF317202, BE793091, BE730051, BE263846, BE384717, BG115969, BE879093, BF183030, AU134059, BF74997, BE737205, BE396557, BE262942, BF027539, BE793751, BE904872, BE893045, BG178142, AU133810, BF310279, BE311403, BE780071, BF125763, AW249262, BG167684, BE799083, BE150570, BE264319, BF797226, BE76706, BF797134, BE277414, AU122878, AI819948, AW292784, BE018144, BE731116, AI346337, BE388636, BG232088, BE644993, AW085502, AI819956, BE273350, AW411494, AI922650, BE079846, BE390098, BE385907, BG230419, BE264525, AW248841, BE542604, AW604679, AI818941, AW264093, AI126505, AI818959, AW837557, BG114384, BE779041, AW182262, AA436151, AI184672, AW069602, AA599479, AI150894, AI687205, AI637558, AV649134, AA594595, AW168019, AW068429, BG035056, AI091663, AI346196, AA436277, AA232178, AI923623, BE139474, AW001867, BF348648, AI802886, AI082781, AA452041, BF912320, AI138457, AI986228, AI346777, AI133011, AI085977, AA127224, AV648865, AI659420, AV648769, AW857727, AA743051, AI721055, AV648944, AA211354, BF894734, BF892701, AA156145, AI261503, AI357961, H82468, H51040, BF752799, BF948221, AA306464, AA995825, H77453, AW837617, AA155712, AA451842, BF752803, BF951602, AA631133, R86155, AI270028, BE301626, AV725027, AI538266, AA844701, BF761725, BF752808, AA064668, AI810461, C18335, AI961800, AI129748, AW381832, BE152165, AA280183, AI184909, AI125741, AA133126, AW067954, N44500, AA156399, AA322829, AI241053, BE767776, BF594788, BF951594, AA826959, T72301, BE706433, BE063208, AI380368, AA127223, BF350441, AA306328, T48747, AI911666, R31445, AW673805, AA382705, AA922112, AI688280, AA385663, BE710692, AW194218, AI984114, BF764757, AA353720, AW883638, AA130715, AI784292, BG254395, R50604, AA347146, AW016251, AA300597, BF851633, AW302862, D25743, AI351721, AA130800, AW276690, AI499265, AI537970, T69840, AA281560, AI633516, R53694, AI049970, AK025165, S53268, X56741, X56385, S53270, M83675, AC011742, AI137068, AC003104, AC011452, AC006329, AC008812, AL391690, AP000335, AP001725, AC009086, AC003029, AC004151, AC002401, AC011475, AP001732, AL121929, AC007386, Z99716, AL117334, AL050349, AL138741, AC004840, Z85987, Z83838, AL031680, AC005098, AC016995, AC000353, Z93015, AL162505, AC010422, AL121933, AP000215, AP000350, AC008163, AC003007, AC005071, AP001469, AC008649, AC004166, Z83845, AC006480, AC004975, AL049762, AC004867, AC005632, AL139353, AC010289, X14448, AC002351, AL133174, AP001038, AC005082, AC004159, AL033538, AC006312, AL389886, AC006530, AL031291, AF024533, AF030453, AC004673, AP000557, Z82179, AC005180, AC007283, AL158830, AC009470, AP000031, AC026199, AF135025, AF053356, AF031078, T55532, R50516, H51041, H77454, AA064715, AA116002, AA128604, AA132717, AA665918, AA709196, AI091860, and AI696317.					
HSKHK19	291	988968	1 - 1335	15 - 1349	AL519526, BE256801, AW130128, AW970424, BE621017, BE787578, BE621643, AI589581,

HAGOR59	292	999124	1 - 584	15 - 598	<p>AI949575, AI818124, AI589840, AW081864, AI912753, AU145975, AI634482, AI563933, BE223113, AI074607, AI569706, AI814661, AI373372, AA496332, AI860757, AI184874, AI812006, AW275925, AW275923, AA443603, AI866518, AI049612, AA535149, AW104765, AA446619, AU146067, AW938784, AU119822, AI377544, AL519527, AW613441, BF510601, AA496667, AA910533, AA568546, AI033588, AA457153, BE676768, AA454523, AW170554, AA187136, AI241929, W72667, BF530659, W06898, AA699709, BE540686, AA074340, AA367858, AA443905, AA577051, AI928605, AW151489, AA367893, AI656686, BE702465, AA379678, D63303, AI017693, AA513395, C02140, BE702440, AA676828, AW751107, AI476663, BE048320, AW337952, BG004582, AC004890, and D30612.</p>
HOPKS83	293	999148	1 - 2249	15 - 2263	<p>BE784070, BF002337, BF514872, AA568401, AA579465, BF967065, AW752043, A90832, and AI121674.</p> <p>AL522393, AL533573, N99342, AL516958, AL535381, AL523241, AL535062, AL522394, AL533382, AL516957, AL523240, BE562445, BG105219, BE612965, BE312728, BF312923, BF315986, BF035342, AU118409, BE743128, AU119979, BF317065, BF315006, AI911669, BF206582, BE378738, BF314738, AI920919, BF307782, BE393973, AL517298, BG105346, BE299566, BF312608, BE336625, BE743194, BE899095, AW956858, BE336951, BE263982, AI863032, BE382388, BF793901, BE299754, BF033995, AW956858, BE336951, BE263982, BE299939, BE794536, BF204946, BG117746, AL517299, BE540363, BE746220, BE889577, BF310262, BE296433, BF032410, AI630771, BE262722, BF206365, BE881335, BE792711, AI962939, BF038482, BE736530, BE262374, BF983571, AL041532, BE222837, AI203519, BE747404, AW474516, AW860949, AI467799, BF038659, BE395887, BF205799, BF984646, BF035677, AI446105, BF033792, AI683133, BF207213, BE390734, BE880386, BE797748, BE747404, AW474516, AW860949, AI467799, BF038659, BE395887, BF205799, BF984646, AW084757, AI623375, AI198705, BF317016, AI688407, AI131027, AI951929, BF035073, BF724131, BF034309, AI680339, BF361335, W63745, AI802236, AI620096, BG117568, BE395019, BE963719, AI631270, AI017269, BE382313, AW404858, AA069776, BE217748, BE161881, AW131659, BF306325, AI146732, BF741443, AL041531, BE260390, BF811734, AW951865, BE963088, AW516123, AI126564, AI376222, AA399190, AI473708, BE298239, AI024470, AA069813, AI693963, AI038226, AA557265, BF832766, BF038178, AI146374, AI310457, AI371081, AI302272, AA613136, AI148411, AI080066, AI469677, BF315092, W58405, AA031461, AW301060, BE743266, AI366166, BF812723, AI097537, AI199004, AA479914, AW575954, BF956421, BE260076, AA156788, BE391447, BG169831, BG015923, AI814687, AA728764, AI859489, R72685, W74501, W61097, BF092603, BF092637, W58479, BF811740, AI683174, W79724, BF092611, AA974665, AI874214, AA156877, BE395715, AI568464, BF590686, BE336638, AI743500, BF948695, AI538384, AI039247, BF948453, AI149388, BE830442, BG059628, AA394042, AI625093, AW630225, BF092602, AI274730, BF446367, BE261854, AI040040, AI810483, N94374, AI446509, AI658968, AI367239, BF912314, H48071, AI018149, BE019825, AI589495, BF948722, W58139, AW511638,</p>

AA158830, BE395897, BE830455, AW797898, N42429, AJ807436, AA564365, AW664154, AA862859, AA587393, R89725, AW935394, BE830543, BF948713, AA025932, AA378526, T86572, AW860351, C03858, R69902, R87596, AA410731, BF948447, BE167227, AA023269, H15300, BE272841, AW265784, BE830458, AA586799, W74210, AA428501, AI634229, F11464, AI082322, AA827348, BE162645, BF948448, AI536577, BE562938, AI139675, U60644, AF026124, AC010271, AI17435, I48978, AK026480, X72889, AF036191, AL080124, AI137533, AK000445, AI137548, S36676, AK026480, X72889, AF036191, AL080126, AL049324, AF106657, AF219137, AK024747, AF200464, AK026647, AB049578, AF008439, I00734, AL050146, E00617, E00717, E00778, AK026506, U95114, AF130099, I48979, I32738, S61953, A77033, A77035, AL080110, AB048974, AF016271, S68736, AL389935, AF218014, AF116650, AF111849, M86826, AK027136, AF100781, AF218005, AK027164, AF106862, AK025541, AB040710, S83440, AR081734, AF116631, AB033884, I09499, U73682, AL137641, AR034821, AL133031, AI137292, A08910, AF116644, A08909, AB016226, AK027081, A08913, A91160, AK024855, AF057300, A91162, AF115410, AF057299, AL110225, AK024974, AL122100, A08912, AF158248, AF102578, AR011880, AR038854, AF116698, A08907, AL050277, AX046716, AC004227, AB050431, AI137479, AF017437, X76228, AF119899, A08908, AB048953, U67958, AL1390154, AK000618, AL137529, U87620, S77771, AL117440, AX027129, S76508, E01314, AF077349, AK025099, AK024588, A65340, A65341, AK026528, AK026057, AB050533, AL137574, AL117457, AK026434, AL096720, AL137488, AL122093, X63873, I68732, A08916, X79812, AK000137, AK025084, AF159148, AF262032, AB047631, AF039138, AF039137, AK026551, AF116682, AL080086, AJ250403, I89931, AF113694, S63521, AF116610, AL135960, AF177336, AK027146, AB007812, AK025015, AL359623, AF130082, AF321617, AK000486, AK026600, A08911, AF175983, AR087170, AF091084, AK000653, AF130055, AF305835, AB052191, AF044323, AL137550, AB008792, X83508, AL110280, AL359618, AB008791, AK026462, AK026532, AF111112, AI8777, AF113019, X66862, AL357195, AL137478, AL137530, AX014095, AF111851, AK026749, AK026613, AF094480, X70514, AK024538, AF132730, AX020124, AB052200, AF260566, AF177401, AF287051, AX040958, AL389982, AF260436, I89934, AB049892, Y10655, AL136884, A57389, AR083266, Y16645, A07588, AR053103, AF087943, AL049382, U58996, AF110640, AL049347, AB044547, AL137281, AL050116, U62966, AF185576, U80742, AF285167, AF162270, AL110159, AF026816, AL117648, AF116688, AF119336, AK027102, X62580, AF143723, AL137271, AF119859, AB047930, AL389957, AB049880, AF217982, AL359601, U96683, AF119857, AK027142, AK000391, AK000421, Z97214, AX026824, AX026823, A58524, A58523, AC009484, AL050108, Y11587, AK025378, AL133640, AR075044, AK026045, AB049900, AK026762, AK025092, AF155221, AL157483, AF047716, AX019230, T40409, T41255, T75154, T77600, R11447, T97936, T97937, T98633, T99301, T99301, R06737, R06786, R13789, R17827
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HE8CY70	294	999157	1 - 1830	15 - 1844	AWE79192, BF530420, BE745297, AU117223, BF527457, AA496607, AU123909, BE872588, AW882094, BG013957, AU121939, AW351481, N79880, AW959439, F11971, AV693216, AW390117, BF931676, BF742689, AW997245, AW937846, AW800106, AW796165, BF931403, AW899383, BE700047, AL042881, AW899297, BE699796, BF819802, AA300925, BE149577, AW899299, BF743447, BE699998, A1570163, AA66791, AW899558, AU147665, AT978630, BF436552, BG010862, AW001282, BE700284, AA662508, AT635169, AW170627, AI890519, BF509786, AW130855, BE706148, AI783780, AI983256, AI801585, AA323509, AI193784, AI400088, AW009844, AJ288952, AW166951, BE838621, BE819028, AW937780, AU151740, BE819006, BE838640, BF475968, AI983330, AW009033, BW819041, BE838648, AU129660, AW026864, AI199344, AI369124, AA348716, AA040881, AW117735, BE838678, AW169754, AW104779, BE904184, AB007867, X87904, and AJ011415.
HPCITIS	295	999243	1 - 1791	15 - 1805	AL53256, AL534951, AL537065, AL534840, AL532662, AL534290, AL534839, AL537766, AL536321, AL536486, AL519773, AL519772, AL534970, AL514450, AL536487, AS532832, AL515338, AL532707, AL517308, AL533170, BF966574, BF966824, AL533327, BF969218, BF312752, BF966857, BF971333, AW954554, BE741256, AU138028, BF348305, BE742610, BE746943, AL528920, BF966861, BF791964, AU134706, BE382457, BF793547, BG036726, BF206971, BF793341, AU136569, BE788895, BF793833, BE314586, BF528036, AU139364, BF315334, BF528947, BE786032, BF969765, BV705152, BG031513, BF970234, AI795976, BF66199, BE383501, AI47046, AW857216, BE784831, BF966444, BF529799, BF951912, BF527213, AI537064, H93036, BF951951, BE260158, BF931931, BE793344, BF951912,

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HOPKN50	296	999313	1 - 1689	15 - 1703	AL531915, AL527360, BE903220, BF684028, BE561023, BF984727, AU129601, BF978548, AV718036, AW955129, BG257162, BF665251, BF667950, BF219086, BF038467, BE889796, BE565202, BF244797, BE564344, BF218992, BF576929, BF977553, BF976962, BF029347, BF540908, AL527307, AL531914, BF246890, BF687621, AA312280, BE940500, BE566742, AA700427, BF700934, R92253, BF977894, BF246242, BF666100, BF994346, BF001266, AI954614, BE503512, AA249583, AA188980, AI955047, N88235, AA249666, AA189047, BE857720, BF899120, AI341285, AI341287, BE543964, AF017790, Z59345, and AJ236630.
HAPAI17	297	999778	1 - 1280	15 - 1294	BF033653, AW444993, AI871043, BF032343, AI807343, AW510878, AI950459, AI826126, AA447467, BE857146, BF509983, AA001932, AA446661, AI859171, AA872128, AA922684, AI083866, AW297393, AU138791, AA775527, AW262576, AI361621, BF033189, AU155748, AI933363, BE645182, H13820, AA670262, D45494, BE899588, AA228815, AA315799, AA977654, AA683497, AI586990, AU134985, BF853051, BE315005, AW890841, BE788343,

HHAUUV59	298	999808	1 - 1896	15 - 1910	<p>AW769578, BE746090, BE019946, BE612484, BF035920, BE301953, and AK001832.</p> <p>AL048447, BF312839, BG024591, BG117134, AI678749, BE839416, AA675912, BF307871, AI765059, AW572765, AW007348, BE675880, AI885787, AI435265, AI075277, BF934019, BF309250, AW964131, AI524738, BE297104, BE933325, AI383625, BE773064, AW269313, AI522069, BG233109, BF933881, AA675911, BE888599, BE048871, BF056045, AI827292, AI830068, AW204343, AW001183, AI633366, AW732389, AA378192, BE047068, AW899221, BE743381, BF800703, BE747149, AW011959, AA312335, AI632305, BF057718, AW001192, BE258013, AW471190, BF935373, BE545235, BF034266, BE019131, AI763226, BF305211, BG004997, BF109329, AI187053, AI970090, BE440030, AI492245, BE140494, AA460452, W00626, AI628639, BF569680, U73200, AF311311, and AK025229.</p>
HTXLL31	299	100031 5	1 - 2567	15 - 2581	<p>AW851285, AI307751, AW851000, AW850996, AW851276, BF111184, AI860767, AA151346, BE326805, AI670955, AI670956, AW47917, BE962693, BF057083, BF692970, AI762646, N54275, AI304947, AI129360, AA431590, AI653467, AI523805, AW816568, BE933761, N78023, AI188725, BF684485, AA429000, BE046482, AI417222, AW003359, AI690557, BE222504, AI355940, AA035134, AW627685, AI765632, AI276573, AI301819, AW026872, AI285087, AA080713, AI262798, AI000876, BE698558, AW206586, AI341622, AA035133, AA088715, AI373092, AW851281, AW367644, AA088714, AI767023, BG223175, BE939909, AW851279, BF926936, AI537741, AW194241, AI138638, AA100747, BE010120, AI251120, BF223753, AW630988, AW166773, BF350566, N58715, AI289411, AW339814, BE243498, AA341869, AW339823, AA811859, AV650677, AW865812, AV654828, AI262069, AV657837, AI610516, BF196451, AI473271, AA431459, AW300347, AI631804, AW771246, BE15798, AW374420, AA100730, AI696300, AA135161, AW849214, AA135257, AA216017, AW865611, BE613126, AA149246, AA665876, AA341868, AW050441, AI174474, AA227718, N58433, AA249421, BF353512, AW391686, BF810441, AA535957, BE926241, BF885921, AI123195, BE174780, AI345415, BF911517, BE612556, AI345612, AI568293, AI345416, BF971669, AI654276, R36271, AI590043, AI370322, AI333104, BF763458, AL036901, AI520964, BF911521, AI583578, BG260817, AA761557, AV718258, BG179795, AI690813, AA618618, AI621341, AA814343, BG025897, BF997967, AI539260, AI918677, AW075382, AW085373, BF726255, BE439844, BE966699, AI638644, BE886790, BG257360, AV747571, AI434969, AI538850, AV756182, AI568061, AI282669, AI927233, AW955313, AI368579, BE620296, AL040243, BF970768, BF726231, AW167215, AI811840, AI500061, AW083572, AI419826, AV755821, AL046942, AI698391, BF792047, AV682387, AL039276, BG113299, AI499279, N25033, AA555145, AI744268, AI923989, AI370623, BE965129, AI826230, AW630386, BF725395, AW083573, AI866469, AW827289, AW128834, AI537677, AI580027, H89138, AI699175, AW020561, AW005029, AW263709, BG166654, AL039086, AW020419, BF765551, AL037602, BF835240, BF310166, AI679550, AI863002, AW959800, BE778453, AA749449, AV168406, BF344359, AI364167, AI635528,</p>

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HDPUH64	300	100033	1 - 691	15 - 705	AA481292, AA279864, and M78277.
HTHS93	301	100042	1 - 1331	15 - 1345	BE886817, BF981304, BG109169, A135262, BE439496, A1232934, BF670052, A138465, BF542074, A1239554, A10966887, N90372, N45516, W76608, A10949321, BF431123, AA307160, AA173490, BE185499, A1744410, BF063334, A1294497, BF675907, A1861878, BF980429, T29000, R11099, A123270, R11071, A123334, AA478933, BG181115, BE815659, A12363100, AA705027, A12363101, A1718686, A1718938, BE827298, N68560,

HMVCG79	302	100058 2	1 - 1858	15 - 1872	AA091199, AW754043, BE741054, D13645, AL365475, AK024584, and AF245442. BF971208, BE869819, BF676817, BE878141, BF312727, AA258513, N21319, AA258357, AW293672, BF772376, AI075876, AI337429, BF589677, H71643, H63685, H71642, N31254, BF447980, AI081147, AW169975, AI245423, AI079154, AI291037, AW008074, AW270768, AI446205, AW500064, AW277174, AW505125, H04371, AA364456, BE739747, W39161, AI636439, AI192631, BE738966, AW157005, BE383034, AI709174, AI028510, AA92126, AW275719, F23327, AW975049, AA743811, AA657835, AI205181, AA608683, AA728894, H79308, AA968509, AI434311, AV717634, AI625244, AI281881, AW674711, AA515170, AA340747, T06828, T48723, AA362573, AA865262, AL045077, AW368401, BE270471, AI524050, AV719311, AV682003, H67172, AW238278, AV757334, AW845750, AI754955, AA772016, AI804604, AW021583, AU125644, AA43721, AW971192, BF911530, AI634746, AW819611, AA669251, BF940837, AI932902, AA502155, H85059, T83057, AI284463, AI287651, AI811460, R94288, BF946625, BF766147, AW963291, AU144397, AI888365, AV732042, AW504326, H56013, AA774019, AI539776, BG059523, AI864260, AW276827, AA347927, AF244577, AJ387747, AK025880, AK026921, AF244578, AC007510, AL359894, AC007225, AL133412, AC003080, AF190112, Z98258, AC006205, AP001717, AC005661, Z94721, AL031594, AP000049, AP000116, AF190110, AF190113, AC004826, AL138721, AC008651, AF134726, AL020993, Z98051, AC003101, AC005037, AP000193, L78833, AC007676, AF002993, AC004821, AC010422, AL021808, AL121928, AF190111, AC010723, AC007739, Z84470, AL122003, AL121777, AL360227, AC007324, AC004385, AF200465, AC005088, AC007387, AC011479, AC007360, AC004906, AP000517, AC001066, AL022323, AP000311, AC003084, M87889, AC011895, AC005519, AC005229, U91327, AL031229, AL139382, AL138976, AC000036, AL390755, AL021878, Z82245, AL117347, AC004159, L81893, AC005840, AL050318, AC008155, AC012611, AC005015, AC000159, AF195658, AC003592, AL035417, AC011440, Z99495, AC005043, AC009178, AC035149, AL163278, AC004971, AB023049, Z98752, AL121586, AC009075, AC004076, AC027319, AC006948, AL118506, AL031722, AL031602, AL132825, AC008521, AL358214, AL049537, AL354696, AC000134, AC004186, I51997, AF031078, AF030876, AL136092, AC005486, AC008041, AL158830, AP000117, AC008171, AL096814, AC006511, Z78978, AC018720, AC007881, AL031587, AL050302, AC004812, AL136090, AL096791, AL031296, AC007243, AC010605, AC005256, Z74021, AC013451, AC010553, AF217403, AC020663, AC006536, AC005071, AC006305, AF029308, AC069080, AC003012, AF130418, AC004477, AL096819, AL355497, AP001669, AC008813, AL137073, AF317635, AL031848, AL022394, AF108083, AC010169, AC005952, AC005921, AC004526, AL391316, AJ009615, AC003007, AP000552, U82670, AP000359, AC002365, AC008543, AF205195, AC024561, AL160175, AC016027, AC011309, AC005295, AC018766, AL109614, AC005280, AC002082, AL353807, AP001421, AL022315, AP000013, AC008469, AC008958, AC022493, AC007114, AC005763, AB002390, AC007156,
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HCHMO53	304	100087 5	1 - 784	15 - 798		AI138616, AW300425, AW772406, AW268862, BF055191, AI742921, BF055196, AI654832, AW511109, BF445916, AI824093, BF590313, AI088790, BF513605, AW057904, BF116007, AW572798, BE467017, AI357591, BE299861, AI809223, AI523869, AI424949, AI343405, AI741265, BG032861, AI378380, AI222175, AI932241, AW967410, AW081363, AA236611, BF594076, AI394054, AI354679, AI292206, AW117384, AW340692, AI285920, AI452454, BF111690, BG117257, AI452979, AI857953, AW629001, AI738406, AI934760, AI743316, AI283498, AI918777, AI693913, AI272944, AI339174, BF941902, AI243940, BF446024, BF732754, AA687997, AI097628, BF515727, AA769454, BF446070, AI916272, AI097611, AW627991, BF445914, AI299722, AI085289, AI206071, AA237028, BE275495, BF001500, N30391, AI419554, AA470723, AI472547, AA765572, AA765517, AA884353, AW082296,
HFKKG84	305	100106 6	1 - 978	15 - 992		

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HTIAD78	313	100245 9	1 - 1222	15 - 1236	<p>A77035, I26207, AK000432, AK000618, AF118090, AL122106, X55446, AK025435, AB044390, AF116602, AX020124, AL049452, I30339, I30334, AK027188, I09499, AF130077, AK025484, AL137550, AL137292, AL355701, AJ2500403, AF130058, AL050277, AC026430, AB051158, AK025967, Y11254, AK000655, X80340, AL359596, AK025209, AK026746, AK027164, AK025431, AB049758, AL353952, AR034821, AF106862, X83508, U51587, I68732, AL162004, AL117648, AL133637, AF081197, AL137526, X66871, AK025391, AK025857, AF081195, AF119871, AR070212, AJ242859, AB052176, I17544, AK025798, AF132730, AF047716, E01314, AB050431, AL050149, AL442072, AL080148, DI6301, AL133619, U35846, AJ005690, AL050366, AF175983, AL390167, AL137479, S61953, AF067790, Y16258, E02756, Y16256, AL133093, AK026597, AF119896, AK026353, AL117587, AF115392, AF106827, and AK026741.</p> <p>BF976027, BF344410, AI935276, AI922295, AI453286, AI061447, AW084781, AI922740, AA633914, BF976158, BF975009, AI890517, AI685129, AA604548, AI564488, AA633898, AA554807, AA603094, AI676248, BF342159, BF976021, AI872299, AA482084, AA594007, BF663737, AA583477, BF128583, AI633036, BF448492, AJ624124, BE138766, AW084033, AI972107, AI573054, AA554503, AI861992, AI635092, AA554603, AA603112, AI963159, AI885552, AW189893, AW170437, AI831674, AI913303, AW606610, AI432677, AI627447, AI660947, AI660631, AV684756, AI911860, AI355049, AW080943, AW606612, AI569431, AI554239, BF663657, AA554601, AI570775, AA604466, AA603208, AI824097, AI685224, AI814789, AI499106, AI709348, AI683645, AI921323, BF448566, AA618014, AI983813, AI696861, AI813565, AW088620, AI888446, AI861988, AI955000, BF913238, AI890071, AI982663, AI598119, AI887339, AI880599, AI635332, AI857980, AI924221, BE042860, AV690487, BF448526, AA411582, AA663959, AA643405, AW514722, AW778755, AI631308, AI653450, BE046117, AW393947, AW378521, AI871896, AW469981, AW629703, AW338410, AI872320, AW270036, AI922702, AW951505, AW172900, AI912327, AI673464, AI634576, AA548003, AA522521, BF882331, AI697305, AW339071, AI561092, AI564163, BF741504, AW393397, AI701064, AW662211, AW629802, AW819654, AW819651, AW629750, AI922443, AA554766, AW393944, AI935829, AI690539, AA663981, AI890080, AW368623, AW606617, AA528081, AW381195, AA618081, AW610019, BF883562, AI814167, AW514864, AI890736, AA669378, AI445509, AI569201, AA715192, AW610379, BF768600, AI913479, BF768451, AI861993, AI983877, AW364248, AW418532, BF915146, AI669056, AW338400, AI660695, AW384215, AW629931, BF883542, AA825870, AW610064, AA633179, BE714992, AL048475, AI829836, BF828709, BF976052, AW393995, AA487082, AW393913, AI660861, AI982860, AA487439, AW392248, AI499240, AA485648, AW582663, BF341158, AI888139, AI634623, AA715707, BE706882, AW440616, AW394006, AA618094, AW073757, AI872290, BF826058, BF879554, AA911629, AV686256, AA548191, AW383978, AW393994, AI811728, AA515655, AW972295, AI983040, BF882689, BF882683,</p>
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HSUBG36	316	100249 2	1 - 961	15 - 975	AI185096, BF103789, AU117205, AU137241, AA733050, BE783499, BE618181, AV757786, AV743769, BF680487, BG027886, A1333721, BF541964, A1148205, A1811087, BE378837, AA987818, AA742752, BF685222, AW952792, BE302100, AA659440, AA732364, A1936096, AW327396, AL048083, A1279902, A1263891, AW440528, AV753064, A1826356, AU126592, AA432012, AU123006, AL048084, BE564318, A1470021, AV704356, AA316536, W45183, BE018474, AA625316, A1185537, A1076183, W80493, BF211327, AA316468, W84630, AW516105, BG030086, AA846523, A1422123, W78758, AW518265, AW084860, BE873984, AA313273, BF837020, AU126555, W91935, AA678021, BF211971, A1436313, AA573309, BE874605, AA740180, AW276292, AA652253, BF836170, BF240312, AA748960, F20803, AW005309, AV755665, AA505968, AA262737, AA643844, AA825665, AA825656, BF130913, BF209571, AA484987, AA657855, AA640115, BF218165, A1630419, AA747022, AW957951, A1630230, A1498286, W87610, AA483708, W84681, AW089021, A1085413, AA715002, W87901, AW817501, W94898, F33710, F36966, AA706906, AA384245, T28438, AW999579, A1349439, AA075194, AA659105, AA782910, AA484859, AA812174, AA075195, AA367098, R58158, AA894871, BG153113, N83465, A1339378, A1340881, AA344740, BF758034, D19829, A1613313, BF906690, AA865159, AA804898, W42658, A1144278, BF837009, BE963193, AV732657, AW162196, M12458, X12466, M37716, M15918, AC011533, M65125, M65126, M65235, M36001, X12465, X17036, AL033378, AC006599, M15919, X65704, M21253, X54048, S60260, D28435, and C14070.
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HODJU13	319	100254 6	1 - 421	15 - 435	D80043, AW973474, AW959597, D58283, AW975618, AW966029, AW959570, D80253, AW973307, AV699447, AV719557, AV718707, AV718692, D59610, AW959136, AV720211, AW978634, AW966059, AW966053, D80366, AV719822, AW966531, D80188, AW978661, D81030, AV699550, C14389, AW959202, AV718938, AV718633, AW959628, AW959799, AW960465, D59859, AW975613, AW958993, D80166, AW962082, AW960553, AW966075, AW966065, AV718489, AW973482, D57483, AV722801, D51423, D59619, AW956397, D80210, D51799, D80240, AW973334, AV719324, AW966534, AW975605, AW973488, AV718931, AV720878, AV720731, AV723927, AW949656, AW949642, AW966022, D59467, D80212, D80391, AW966013, AW978648, D59787, D80022, AW966041, C14331, AW964488, D80195, D80219, AW966032, AW966054, AW975621, D59927, AW960473, AW965177, AW949629, AW965163, D80164, D59275, AW973541, AW965175, AV720791, D59889, AV720203, AW964756, AW966050, AV719188, D80227, AW958992, AW966062, AV718440, AV719783, AV720028, D59502, AV719468, AV718800, AW965185, AW965197, AW965196, AW973485, AW965184, AV718844, AV720464, AV718770, D80196, AV724520, AW959062, AW964477, AW956434, AW949641, AW949654, AV699927, AV700889, D50979, AA305409, C15076, D80024, AV721386, D80241, AW966023, AW960454, AW973330, AW959582, AW949653, AW949645, AW949631, AW949643, AW949618, AW949657, AW949655.



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HODIL25	320	100255 1	1 - 1814	15 - 1828	AU120042, BE780972, AV715756, AV711451, BF347691, AI357871, AI818374, BG104561, AW613119, AL119040, AI610884, AW129956, BE840539, AA861081, AW080968, AI949210, AA088340, AA911979, AI890636, AI082565, AI253533, AU151586, AU150967, BE840639, AA594005, BE835307, BE349344, AL047924, BE835388, AI217066, AI401436, AW170795, BE439805, AI808939, BE567432, BG236052, AA232142, AI078839, AW193031, BE840631, AV754839, BG024161, BE769183, BE769133, AA421829, AA136375, AI080190, AA136322, AW958948, AA825391, AA147532, AI492527, AI493374, AI242642, AW029010, D59969, AW264735, BF096116, BF764397, AL041312, BF095708, AW627822, D79956, W95261, AI270468, R74381, AA355105, AW939263, BE925867, AA136289, AA136235, AA659078,

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HOPIX95	326	100272 9	1 - 821	15 - 835	BE440007, AW328077, BF343657, BF975542, BF306557, BG248771, BF663545, BF205398, BF569420, BF204900, BF971122, BF206677, BF308210, BE270535, AV736487, BF568537, BF343072, BF686553, BF683451, BF568228, BF125523, BE740449, BF568381, BF569600, BF345070, BF205442, BF568081, BE394263, BE740096, BF026397, BE742044, BF974048, BF975645, BE388168, BE728059, BF306011, BG109404, BE727568, AV760278, BF308547, BE899445, BF967484, BE271558, BE746524, BE899041, BF306574, BE395117, BG253032, BF026067, BG104314, BF316008, BE615403, BF183072, BF568460, BE743865, BE745443, BE615771, AV764219, BE391427, BE392514, BF307825, BE741457, BF973348, BE741710, BE392943, BE389334, BE899224, AV763932, BE621019, AI133550, BF304993, BG110091, BE735916, BF972634, BF203698, BE562685, AI830010, BE407743, BF205675, BE395522, BE389095, AI929068, BF684409, BE514858, BG260397, BE408403, BG106500, AV764451, BE390398, AV703321, BE515261, BE255792, BF663217, BE744399, BG033413, BE280125, BE561332, BE384213, BE378445, BE392513, AW196817, BE727789, BE562511, BE394727, AV721219, BE408686, BE907161, AI537251, BE747011, AW516055, BE886992, BE531147, BE394033, BE904077, BE379051, AW328236, BG116376, BE616858, BE906354, BE389096, BF308918, BF668533, BE313005, BF032537, BE900335, BE301975, BE395389, BE745141, BE395269, BE408535, BE791985, BE392446, AV763326, BE746641, BE744523, BE271900, AV763491, BF313406, BE393375, BE904292, AA488252, BE392297, BE315409, BE898707,

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HVVBI81	329	100312 6	1 - 1033	15 - 1047	<p>BE562883, BE733460, BE731242, BE616471, BF184098, BE614999, BF124993, AW161042, BE732247, AI720002, BE735398, AW963989, AW007333, BE529351, BE614720, BE909977, BG168999, AW001354, BF105923, BG034355, AW163527, BF439955, BF982101, BF698001, BE885275, AW474669, AV763438, AW945186, AW055293, AI608832, AA577204, AW130759, BE885816, BE350922, AA280097, AW517232, AA404292, BE395053, BE273672, AW007233, AA569806, AW769131, BE281579, AI827062, AI127609, AA176848, BE378887, BF341546, AA780006, AI355990, AI141330, AI149137, AA847806, AI031744,</p>

					AI143796, AI160701, AA778845, AA843266, AA099004, AF062723, AA614470, BE076042, AI445696, AI565519, AA468770, AA782115, AI497582, AA552408, AI494523, AA401294, AI375783, AA594315, AA761018, AI082026, AA587002, AI224958, AI858962, AI189578, BF683682, AA699708, BF988334, BF209374, AA568121, AA495906, AA099073, AA159987, BE562957, AA877377, AW945187, AA922449, AA315409, W37385, AA410418, BF439308, AA632840, W81269, W32492, BE075625, AI338833, N55541, AI983955, N36577, W81233, AA495905, H63552, AA714174, R99250, AA844586, AI159852, AI096873, AW579429, AA232999, AA887055, AI262372, N51896, T54995, AI929281, AI368588, BF551353, F36789, N78711, D30894, N62719, AA025552, AA155970, AA773222, AA233045, W37491, H60049, AI143368, AI673563, AA857035, F35505, H63597, AI738830, C18334, AI247757, H67322, AI868458, AW405726, AA406300, AI378872, F32766, T57268, AA232955, R99052, AA470421, H68531, AA155680, BG028421, AA128876, R08423, BF351216, AA457131, AA159986, AI557608, W07730, BF331418, N76927, AA464479, AI867132, AW794300, F22032, BE075384, AW607025, R29484, AI869219, AI381765, AA426395, AI572269, AA688221, BG170967, BG112178, T55161, BE828599, AA025653, AA232947, AA642504, T56637, AW372146, AA340140, T29667, N78443, AW749083, AW885264, AI929356, AW885263, H57775, AA716675, AI022863, R29328, AA411375, AW510785, N73182, BE940670, H57774, W02158, H81432, AI200370, AW969655, AW979030, AI309803, AW979046, D26308, D32143, AC010271, L35045, and AA457132.
HVVBK18	330	100315 5	1 - 1070	15 - 1084	BF305151, BE735037, BE747506, AU142350, AW007738, BF969509, BF237675, BE536135, BE887112, AV762678, AI189162, BF304178, BF685859, BE904945, BE910235, AI831230, BF796121, AU129499, BG028749, AU129917, BE233409, BE383400, BE786396, BF038236, AU126872, BF211966, AW151710, BF794652, AI025755, BE791012, BF508698, BF573136, AI828932, BE791105, AW131497, BE350874, AI680282, BF345258, BF215074, AI581180, AW778828, BE567149, BF103688, AA706900, AA583905, AI185849, BF184091, AU123046, BG113431, BF382100, AW664218, AA737763, AI338605, AI672800, H97858, AA479594, AA482100, BF242491, BF107188, BF215495, AI262005, BE865968, AU127161, AA443583, AA480133, AA393815, AV662236, AI002710, AA722765, BE536238, AI831666, AA477032, AU151980, AA878562, AI142353, AI689584, AW276192, AI567125, AI015877, AA862947, AI380858, AW993389, AA284572, AA862518, N35547, BF928258, AA492405, AA284877, AA152127, AA131821, AA476920, AI833193, N28814, AA243320, AI243915, AI304511, AA293499, AI342052, AA132004, AA293112, AI140958, AA443648, T56244, AI281588, AA453009, AI863847, N53065, AI186249, AI312511, AA761708, AA865831, AI272898, AA131997, N44572, AI206382, AI220411, AA490003, N23342, AA962083, AA150044, BG059293, AI591408, AA534684, AA630630, AI935160, N99371, BF573103, AA477433, AA669307, AA393918, N26856, AA865189, BF941869, BF673621, AA099578, AU149842, AA774040, AV721930, AA912358, W39527, BE247542, AV741784, AI766710, AV755538,

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HOFMS19	331	100322 2	1 - 420	15 - 434		<p>AW629632, BE906747, AW238814, BF244456, BG035566, BE896159, AL523247, AL526987, AW161580, BF034231, BG110736, AL525505, AA594515, BE350096, N74741, H91423, N35197, Z72000, D83745, D64110, AP000432, AF087037, and AP001670.</p>
HSCLM55	332	100322 4	1 - 1080	15 - 1094		<p>BF036860, BE874607, BE613153, BF131283, AW024416, BE218012, AW662566, BG033319, BG178742, BE677139, BF038607, AW992000, BE697884, AI421202, AI434791, BE857176, BE858592, AW960360, AI309982, BF752463, BG122649, AW572665, BE697883, AI769534, BF432791, AW473625, AI393963, AI378930, AI492647, AI769524, AA953114, AI380180, AI420285, BE884521, BE697886, AI805717, BE697879, AI077552, N26060, AI678958, BE205797, AW627557, N40424, BE790024, BF110838, AI190662, AI613423, AA976041, AA581509, AA776498, AI268866, AI291641, AI289100, AI208759, BG113949, AW466940, AA278467, BG121150, AA665834, AI341899, BF940423, AA315414, BF752452, BF823045, BE765726, AI671697, AI961637, AI613432, AA989174, BE813958, BE765666, AA235080, BF438697, BG171186, AV739357, AW802718, AI127470, AA603717, R80986, AI085843, AA235209, AA993834, N80556, AI160297, AA421270, AW863774, AA187209, AI205566, W39334, AW277106, H59979, AA045407, BF752395, T75129, H09069, W52459, AA503424, AW971006, F10405, BE005409, AA421317, W52458, AA723427, AW189559, AA045301, H09070, AA256210, AA503121, BE826023, AA921301, AI819232, BE831073, BE831048, AW956475, AA303086, H23150, H81373, BE831070, H23151, AW593442, BG166357, W15379, AI003129, H57853, H80453, AA587453, F12797, BE831071, AA811971, BE091742, AA379841, R80786, AA737085, AW029021, BF752382, R38552, BF354290, BE150019, T48991, BE831072, BF195285, AA503131, AA256353, F17470, AI424220, BF965507, BE929386, AI431521, AL038986, T48990, BE932245, AI381715, AI424511, AI569722, AA835425, AV757066, AW997044, BE143663, AW337583, BE065144, AA558437,</p>



HETJU23	333	100370 6	1 - 2214	15 - 2228	AW269615, D20475, AW016289, AI795986, AW996815, AW603108, BF334971, BF334967, BE784335, BE897879, AV721229, AW881505, BE699148, W07679, AL050215, AF151801, AC004983, D89937, and AX026138. AU125582, BF338909, AV721101, AW960032, AU149216, AI479301, AA551070, AI765789, AI888129, BF689666, AW300579, AI561067, AI952933, AA699496, BF851750, AW631269, BF223599, AA977132, AW003323, AA227895, BF056547, BF056388, BF851745, AW628961, BF851053, AI499649, AA227595, AA557146, AA005279, BF999437, AI124737, W88953, BE139597, AI866470, BF690562, AW392978, BF849227, BF999431, AA524236, AA992176, AI817652, AI933331, AA005195, BF999425, AI381813, BE221278, F36543, AW087421, AW167326, F30327, BF850865, AA953702, AI242910, AA367411, AI363751, BF834497, BE048256, BE708177, AW379838, Z42044, AI351935, F01568, BG055860, AI691123, BF772332, AI783542, AI131405, W05190, AV702728, AX040389, AX040390, AK022692, AB033104, AL133630, AX040393, and AF200815.
HNOKB73	334	100448 0	1 - 1202	15 - 1216	BF672055, AI828433, AU145153, AI909113, AI831421, AW471345, AI909126, AI922310, AW511425, AW151865, AA861631, AA993238, AI909131, AI688870, AI922300, AI310077, AI620982, AI272867, AW628057, AW057746, AI623341, AW117681, AI267991, AI818511, AA487193, AA291847, AI222864, AW190743, AI914551, AI692825, AW189277, AW304917, AW055334, AI278911, AA661670, AI969389, AI909123, AA894780, BE049422, AI453695, AA911888, AI571659, AI862021, AI621161, AW627585, AI569192, AI624941, AI571426, AA194152, N67602, AA688382, BF857139, AA486838, AA291725, AW263429, AI653841, AW020368, AI453306, AW090321, N64130, AI279927, AI249255, AI926018, BF884826, AW390274, AW294466, AW361842, AI696774, AI275762, N45716, AW089415, AI262331, AI811607, BE939116, BF750734, AW608182, AI624961, BE939114, AA367257, AI687265, AI698996, AA297958, BE937479, AI701193, BF744029, BF858828, R82992, AI909128, AW167711, AW198062, N48994, AI866006, BF882878, BE940672, AW816180, BE818295, AI909134, AA194103, AC018634, AF026692, AF117709, AF140346, and AF012891. H99646.
HODFB06	335	100458 3	1 - 748	15 - 762	
HODJA76	336	100461 9	1 - 447	15 - 461	AW977567, AA907333, AA814897, AA836609, AC005567, AC002565, AC005480, AL356299, AC005520, AP000066, AC073593, AC005736, AC002394, AF196969, and AL121890.
HODJY60	337	100462 5	1 - 2212	15 - 2226	AL513853, AU133237, AI654122, AU126018, BF058308, AV725133, AW183152, BE671606, BG253097, AI948488, AI950097, AI927294, AW969418, AW275334, AI076608, BF940262, BE535180, AI417857, AI952810, BF959274, AI417041, AI420844, AI379187, AA723579, AA913702, AW394103, AW949335, AA393920, BF979295, AI093193, AI313185, AU129447, BE253357, AI017439, AA313310, AI590307, BE890745, AI346472, AA962778, AI276140, AI985266, AI336030, N98729, W96013, AI299081, AI092621, AA233883, AA232829,

					AA781239, AA622011, AW072156, AA393816, W94867, AA609830, W31110, AU116848, BF819291, AI082414, AA314016, N51280, N56619, AW291732, AA776847, AA455083, AA493714, AW394076, AI468453, AV695898, BE168785, N36233, AA731537, AI870707, T86928, AA235859, AV647197, AW752864, AI640207, AA429798, BE865766, AI640206, AI082534, H98542, AI569628, AA027841, AI569818, N99968, R92374, AI205830, AW851013, AI739354, AI245327, AA480260, AI074055, AA732762, AI002565, AA865045, BF212369, AI351016, AW086045, R79060, AI071728, N29663, T10195, H13610, AA027906, AA858240, AA385768, AA146905, R78751, R42309, AI473130, AI470964, AI914661, T67643, AW379568, R79439, R79440, H60159, R16364, AI572204, T81369, T81368, T79138, H98568, R34819, AI868283, T87007, T10194, R34708, T81696, BF376256, T78651, AA558922, C21521, BF358554, BF358559, AW995536, T81484, BF803137, BF358570, BF527611, AA916657, AW365960, AW387409, AW365962, AU077288, AW191737, AW805831, AW496790, H13241, AI291610, AI686163, AA911580, D31095, AA226320, AI302576, BF588761, D31161, D31474, AA662158, F27660, AI091013, AA406478, AI866679, AI357567, AU143828, AU154607, AU151560, D31031, AI122554, AA452028, AW874359, AW975085, AW473972, AW169600, F36093, F37355, AL515852, D20919, AW439053, D31309, AI360390, AI475944, AW468490, AU149562, AU156455, BF352364, BE702458, AW394081, BF821859, AA905362, BE220171, BF756901, AW496791, BF326825, R92373, BE327258, AI273552, AX014920, L28997, AK001489, X76920, U12402, AL133620, AA253087, AI279963, AI640198, and AI767022.
HODEF10	338	100462 7	1 - 593	15 - 607	BF799949, AV719557, AW973490, AW978634, AW966032, AW949656, AW973474, AW966059, AW959597, D80188, AW975613, AW959136, AW973482, AV699447, AW966029, D59859, AV720533, AV718489, C14389, AW956397, AV720616, AW973307, AV722801, D59927, AW975618, AW949642, AV718707, D58283, AW959202, D81030, D51799, AV720211, D80253, AW959799, AW966053, AW966531, AW978661, AW966386, AW960553, D80166, D80043, AW962082, AW959570, D51423, D59619, D80210, AW966075, D80240, AW973330, AW966065, AV718922, D80212, AV718692, AW958993, AV699550, AW949629, AV719324, AV718938, AW960465, AV718633, AW975605, AW966399, AW973488, AV718931, D80391, AV720878, AV720731, D59787, AV723927, AV699866, AW964488, AW959628, AW973334, AW966534, D50979, AW966022, AV723097, D80227, AW966013, AW960473, AW965177, D80022, AW966041, C14331, D80219, D80195, AW958992, AW973445, AW975621, AW978648, AW949631, AW949643, D80196, AW949618, D59467, AW965175, AW965163, D80164, D59275, AW973541, AW966030, AV720791, D80366, AW966054, AV720203, AW964756, AW966050, AV719188, AW966062, AV718440, AV719783, AV720028, D59502, D57483, AV719468, AV718800, AW965185, AW965197, AW965196, AW973485, AW965184, AW962395, AV718844, AV720464, AV718770, AV724520, AW959062, AW964477, AW956434, AW949641, AW964468,

					AW949654, AW964532, AV699927, D59610, D59889, AA514188, D81026, AA305409, D80248, AW960532, D80024, AW973447, D80269, AW960454, AW966331, AW959582, AV721386, AA305578, C15076, AW949653, AW949645, AW949657, AW949655, AW966398, D80522, D80045, D80038, C14014, AW966043, D51022, AW949630, D50995, D80193, D80251, AW964737, AV720151, AW962245, AW973473, AW949632, AW966369, AV700889, AW959469, D80378, AW965158, AW949646, AW949633, AW949658, AA514186, D80241, D51060, AV701839, AW360811, AW966023, D80133, AW966397, AW965176, AW752082, AV720812, AW753053, AW177440, AW966378, AW966368, D80268, AW975623, AW966333, C14429, AV720150, AW178893, AW960504, AW960564, AW966330, AW966385, AW966400, AW966388, AW966329, AW966332, AW966380, AV700229, AW375405, AV701004, AV699746, AV718530, AW973465, C75259, T03269, AV699682, AW960570, D80247, AV720035, AV719628, AW179328, AW360844, AW966389, AW366296, AW377671, AW966377, AW360817, AW375406, AV720654, AV699652, D80439, AW378534, AW179332, AW377672, AW179023, AW178905, AV718681, AV744690, AV742001, AV742667, AW753067, C05695, AV701125, AV701335, D80302, AV701166, AF053356, AR008278, AX033851, AX047063, AX047064, A62298, AR018138, AX027925, AB028859, AJ132110, A84916, A62300, AR070327, AF058696, AR087649, AX021518, X67155, Y17188, D26022, Y12724, AX035434, A25909, AX028130, AX020191, A67220, D89785, A78862, D34614, AJ302649, AX020190, A82595, AX047062, A94995, D88547, AB002449, AR060385, AR016808, AR008443, X82626, I50126, I50132, I50128, I50133, AR092424, AR025207, AR066488, AR016514, AR060138, A45456, A26615, AR052274, AJ294956, AR074139, Y09669, A43192, A43190, AR038669, AR066490, AR066487, AR074136, A30438, I18367, AF260572, AR054175, I14842, D50010, Y17187, AR074545, AB012117, AR008277, AR008281, A63261, AX015396, AR008408, AR091537, X68127, AR062872, A70867, AR093385, AR016691, AR016690, U46128, AJ287395, A85396, AR074141, D88507, AR066482, A44171, AR088705, AX042372, A85477, D13509, I19525, A64136, A68321, A86792, AR060133, I79511, X93549, U79457, AF123263, AR071754, AR032065, X72378, and AR008382.
HODFB03	339	100463 1	1 - 775	15 - 789	BG034836, I75233, BF572603, AI557036, BE697488, AL513776, AJ216670, BF747008, T10253, BF745947, R61073, BE843957, BF746454, BE769157, BE766105, BE714429, BF744295, BE765690, BE766038, BE766098, BE766167, BE714404, F12922, BF745931, AA434502, AA465014, T05292, X74331, AJ011607, D17385, D13545, and AL121958.
HPMLN08	340	100463 2	1 - 1380	15 - 1394	BE709782, BE832694, BE709778, BE707630, AA430593, H80277, H80291, AI652995, BF383125, AA193566, AU158293, BF747189, BG260723, AA243826, BE491960, AW063724, BE222441, BE502344, AA164268, BF196258, BG170263, BE932825, AA508073, AW294783, AU155794, AI819266, BE169617, AI468739, AI082255, AI417116, AA385339, AI382168, AI701563, AI031661, AI436306, AW576939, AV715887, AI709346, AW195764, AW044458,

HODEH08	341	100463 3	1 - 364	15 - 378	BF002627, A1802164, AW340159, AA479123, A124847, AK023738, AK023448, and AF113697; W44489, BF344927, BE385927, BF683537, AW406647, BF214121, BF671254, AW248978, BF675993, BF791283, A1083656, BE783427, AA340719, BF038972, BF907681, AL523352, AV697332, BE791818, D31255, AUI27744, AA370162, AA488592, BF027044, AL523351, BE513340, BE270073, BF464623, BE397826, N27234, A1582770, BF095260, AA410725, A1817900, AW799742, H29999, AA331358, BF675835, A1580242, AA358813, AA370640, T97410, R07253, BF210442, AW248314, N33990, N25001, W56853, N33751, AA360045, AA371439, N28848, AA344067, BE813738, BF680023, N27913, AK001410, AL136131, AF114816, AF114817, Z59378, Z64078, Z64079, and Z54696. AW960487, AW170566, AA463471, A1590283, A1479619, A1356285, BE671701, AA443030, A1279424, A1475890, BF948785, AW105033, BE646579, AW469714, AA282026, A1870381, A1692574, A1357242, AW135396, A1306543, BF929181, BE856482, H24386, AA055932, A1125211, R60550, A1934615, A1979010, AA902204, AA557305, A1860938, A1566567, A1420407, D31141, H24399, AW136075, AA913241, AA055381, A1251746, A1249885, AA722942, AA328301, AW204848, AA748866, AA324275, A1698815, AA524094, AA729225, AW206983, AL041606, AA902634, BF091853, BF086880, AW137312, AL041448, AA865160, A1009770, and AF069736.
	342	100463 5	1 - 1333	15 - 1347	AV761433, BE328286, AV658560, AA468371, H52948, AA297662, AA419107, AA419014, BE545345, AA904211, AA313075, BF927768, A1268019, AA194858, BG057757, A1344962, AA644571, T74524, BG169404, AA468505, A1801563, AV754716, A1887235, AV720672, AL096791, AC008745, AL022238, AC009477, AC003982, AC008989, AC002477, AC006064, AP000511, AP000167, AC008623, AC020908, AF165926, A138807, AL138807, AL157877, AC006026, AL121890, AL109627, AL109963, AC020552, AF254983, AL354720, AL031662, AC005822, AC011497, Z97985, AL049834, AL136170, AC005399, AL157838, AC005102, AC008753, AL159997, AC002350, AC005829, AL136000, AC004166, AL163201, AP001719, AC004685, AF168787, AL031281, AL031282, AC008764, AL022163, AL133448, AL022316, AL135744, AC010328, AC022150, AC006088, AL160231, AL078461, AC008569, AC006538, AC008372, AL049643, AF111167, AL138752, AC006312, AC005914, AL162430, AL109825, AP001660, AP001711, AC005529, AL136418, AC004821, AC010636, AC002511, AC019227, AL109806, AC011442, AF196779, AC004125, AL031121, AL050335, AP001727, AC020754, AL050307, AC009314, AL137783, AL121748, AC018720, AC004840, AL163249, AC006329, AC005052, AC011895, AC005412, AL008718, AL009051, AC006001, AC005089, AC009470, AC011477, AC005726, AC008784, AL034379, AL133246, AC004033, AC021999, AL109804, AC022407, AC004983, AP000512, AL031291, AC006101, AL022476, AB023048, AL117258, AC007193, AC007383, AL157776, AC010363, AC008521, AC007021, AF190464, AL138832, AC016543, AP001748, L44140, AL139100, AC004890, AL355094, AC004895, AC002302, AL117694,
HODJB51	343	100464 3	1 - 441	15 - 455	AV761433, BE328286, AV658560, AA468371, H52948, AA297662, AA419107, AA419014, BE545345, AA904211, AA313075, BF927768, A1268019, AA194858, BG057757, A1344962, AA644571, T74524, BG169404, AA468505, A1801563, AV754716, A1887235, AV720672, AL096791, AC008745, AL022238, AC009477, AC003982, AC008989, AC002477, AC006064, AP000511, AP000167, AC008623, AC020908, AF165926, A138807, AL138807, AL157877, AC006026, AL121890, AL109627, AL109963, AC020552, AF254983, AL354720, AL031662, AC005822, AC011497, Z97985, AL049834, AL136170, AC005399, AL157838, AC005102, AC008753, AL159997, AC002350, AC005829, AL136000, AC004166, AL163201, AP001719, AC004685, AF168787, AL031281, AL031282, AC008764, AL022163, AL133448, AL022316, AL135744, AC010328, AC022150, AC006088, AL160231, AL078461, AC008569, AC006538, AC008372, AL049643, AF111167, AL138752, AC006312, AC005914, AL162430, AL109825, AP001660, AP001711, AC005529, AL136418, AC004821, AC010636, AC002511, AC019227, AL109806, AC011442, AF196779, AC004125, AL031121, AL050335, AP001727, AC020754, AL050307, AC009314, AL137783, AL121748, AC018720, AC004840, AL163249, AC006329, AC005052, AC011895, AC005412, AL008718, AL009051, AC006001, AC005089, AC009470, AC011477, AC005726, AC008784, AL034379, AL133246, AC004033, AC021999, AL109804, AC022407, AC004983, AP000512, AL031291, AC006101, AL022476, AB023048, AL117258, AC007193, AC007383, AL157776, AC010363, AC008521, AC007021, AF190464, AL138832, AC016543, AP001748, L44140, AL139100, AC004890, AL355094, AC004895, AC002302, AL117694,

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HODEC38	344	100464 8	1 - 2163	15 - 2177		AA461384, AI638162, AW974192, AW157286, AA702534, AJ003425, AW161799, AA701970, BE258604, AW162461, AI692285, AW265397, BF110566, AW163084, BE504104, AI126148, AA158404, BF110968, AJ003426, BF436206, T78960, AA573177, AI934177, AW163340, AW161342, AA158501, AW160450, AA476353, AL527124, AL523845, AW385571, BE620912, BF347756, AL524949, BF965010, BF835996, BE620514, BE392373, AU127111, BE925487, AI207818, AP001759, AP001469, AK026578, AB005543, AB011144, AJ010089, and AK001370.
HODIQ24	345	100466 0	1 - 3410	15 - 3424		AU132377, AU132354, AU137607, AU120802, AV725435, AV725504, AV727393, AI907846, BF431871, AI971541, AW956982, BE542598, BF977694, BF218040, BF194954, BF572088, AU152685, BE468132, AW274295, BF326712, AV728832, AI290910, BF696191, AI458284, AA918601, BF132210, AI299489, AI306415, AA947581, AA042992, W35163, AA779334, AW470321, AW028573, AI625411, AA255546, AA451702, N40098, AA115015, BF431827, AI248585, N24288, BF087866, AW138804, H84453, AA885588, AI637730, AW970127, N32948, BE464747, AI631137, AI638290, AI637904, AW470388, R52158, R85459, AV704648, AW295739, BE719830, AA514606, BE714126, BE813424, T71262, AA708740, AU156698, H50037, AI085037, AA256661, AI587226, BF821343, AW169353, R23147, AA115014, AU151591, AI701772, AA493555, H98720, BF845314, D81437, AA946917, AW168776, D80972, AA368643, N27158, AW805841, AI922080, AA931683, AA9777047, W20387, AW130610, AA247897, BE827896, AA962286, AI217571, AI702845, AA975966, AW002803, H49993, AI002410, BE964392, AA042824, AA902321, H84454, AI918223, BE813423, AB037840, AK001495, AX034574, AK001892, AX009324, AX009323, AX009319, AX009322, AX009321, AX009326, AX009318, AX009317, AX009325, AX009320, AX009316, A91748, AI656001, and AI656713.
HVVDD56	346	100488 7	1 - 2637	15 - 2651		BG120635, AA643174, AI621233, AW978320, AI309847, BE813594, BF594198, BF208601, AW080955, BG249103, BG249038, AU154737, AI912367, AI969341, BE813560, AA083478, BF093613, AI249906, AA720586, AA808246, AI375180, BF131476, AA702882, AI356456, AI082207, AW951861, AW026304, AI378093, BF922917, AI275444, AA534350, AI074286,

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HTHDV01	347	100495 0	1 - 2166	15 - 2180	<p>BF343723, AI971257, AI922196, AI810067, AA932024, AW195330, AI207838, AV722680, AI346751, AV758001, AW608044, AV713548, AW073373, AW009706, AI590359, AV717241, AV714666, AV687702, AI891081, AI672451, AV649298, AV722097, AI381534, AV652022, BE220350, BE048347, AI573282, AW874080, AW024264, BF337994, AW874253, AI870222, AV760953, AI685727, AI627992, AV360985, AW607239, AI784604, AI950829, AV652082, AI925643, AI962991, AV722223, BF855049, BE046054, BF691186, AV717072, AV720361, AI885957, AI017462, AW664593, BF526890, AI925005, AA843677, AV693121, AI634947, AW770406, AI697419, AA477579, AW316704, AI248184, AA442759, AV713149, AI801820, AI982678, AI972075, AW662094, AW513222, BF854957, BE840522, AI701954, AV697674, AW276098, AA401957, AI460284, AA932526, AI570388, AI453821, AA662536, AI800205, BF853617, AA922678, AV759269, AI005625, AW510478, AA576407, AV747778, BF853756, AI469437, AI261318, AI799500, AA878863, AI889320, AA947992, AI624670, BE840523, BF854954, AI985773, AA746085, AW022137, AA583463, AA514238, AW750674, BF854908, AI610837, AI623966, BF901154, AA566089, AA507952, AA428304, AW805573, AW794742, AA429721, AW768483, AW518282, AI272071, AW845414, AW873164, BF063059, AI537788, AW024169, AA485546, AI373585, AA745909, AW960245, BF853826, BF854206, AA996237, AA837997, AI268596, AI074096, AA496403, BF678821, BF854956, AW794752, AI557549, N67917, AI659705, AA284642, AA887178, AA280404, BG222536, AA985597, AA496353, BF914755, AI268601, AV758482, BF055969, AI954543, AI278945, AV717009, AI356974, AA505878, AW996924, BF477592, BF724668, AW243755, AA620979, AV75843, AV757256, AW022260, AW022208, BF854906, AW877772, AV656426, AW020000, AV654223, AW372625, AI348684, AV742513, AV756665, AA617991, BE940601, AI630329, AI537593, BF828311, BF913462, H30122, AA777812, AA844283, BF914742, AI244382, AA290764, BE041558, BF829019, BF829005, N66497, AA864382, AA757380, BE813852, N23726, BF880804, AI857753, AI479529, D57403, D57829, N68137, AA631437, AA351062, AV734554, BE697034, BF378599, AA937471, N36944, D57395, BF093861, AI557550, AA975329, AA249247, AI134796, H63166, AV658281, AV656501, AW118330, H27631, R79476, D58166, W95944, AW805669, AW021936, AV744824, AV733262, AV725042, BE176841, BE814031, AV654387, BF828021, AW021706, BF476645, AA618186, D58096, AV749166, D57778, BE929600, BE938157, BF357923, N23730, T27640, D57449, BE174681, AI245094, AW579397, D57757, AA040944, D57518, AI678887, D57468, T27639, AW939698, D58277, AX014320, K00650, I96207, AF111167, X06769, V00727, J00370, AF033012, AI132510, AF061881, M37000, M18043, AB022276, AB020214, AF069515, Y14808, Y15747, AB022275, AF029166, AX010026, S60557, D12551, I24430, AR040781, S65140, T61093, R10192, R10215, T97774, T97881, R13148, R31511, R32943, R33906, R33921, R37053, R44148, R49880, R44148, R74449, R79209, R84834, R85530, R95977, H71003, H71015, H83387, H83388, N36936, N52416, N62388, N72823, N73801,</p>
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HVVDJ95	348	100515 3	1 - 1286	15 - 1300		BE744159, BE735588, BE562290, BE543899, AV703356, AW951513, AI869315, BE397694, BF344590, BE222785, AA147088, AW888880, AI421559, BE048028, AW131473, BE904977, BF593805, AI860630, AA307132, BE693231, BF195558, AI859194, AA554706, BF848110, AA779596, BE671642, BE671636, BE772850, AI817963, AW131732, AI131006, AI131235, AI298506, AW360926, AA132115, M79142, AW085550, BF827911, R32144, AA996236, AA827499, AW961823, BF847182, AI864171, AI810869, AW083177, AI279054, R21586, AI683076, R32143, R49059, AI682910, AW959257, BF340401, NA48917, BE764109, W07596, H03637, T32822, AA902240, AI951120, AI302680, AA031941, AA55053, BE502039, AA557656, AI795815, AI874400, AW806659, AW020184, AA318860, AI909782, AA327450, AV655438, BE242543, AI935791, AI702044, AI913289, BF432516, BF848050, AI132349, R49185, R33114, AI948650, F03268, N46415, AI419183, T29712, AA147145, N20886, HI9201, AI539258, BF739937, AA904255, AI356503, BE140381, AA348337, AW806516, R62224, H03636, BE220594, AI636387, AW515881, R33262, AW166586, R64601, BE328664, AW016275, AA581451, N78707, AI915762, BG117733, AI540261, AW997810, AW889502, AA319725, AA985516, AW169409, AA319821, BF340433, AI118620, AA348452, BG058342, AI962093, BE719358, AW883253, BE719354, BE885116, BE735840, AC000395, AB037729, AK000242, AK024575, AF295773, L07924, L07925, AF295780, and U14417.
HODTY29	349	100523 6	1 - 2101	15 - 2115		BF850023, AA904772, AI936458, AW328025, AV731671, AW629145, BE695496, BE695579, AW024363, AI119859, BE695471, AI349413, AI341534, BE695595, AW511051, AI218318, AI087061, BE695610, AA609271, AI366723, BE695599, BE695474, AI093675, BE695613, BE296186, H58337, W03883, AA279464, N65952, R91414, H78868, AI630666, R70876, W79400, AW382181, AA362029, BE895116, BF089826, H28788, AI480262, AW117400, H58726, W79513, H80111, BE764221, BF365918, BE068813, BE695504, BE695512, BE764265, BE695494, H63582, H63540, BE764277, T05675, H28762, H66903, H66858, BF365940, BE764232, BE816201, AI079551, AI079533, AA094526, N94211, BE271751, BE768528, AU126895, BE816196, BF331621, BE764248, AA279129, R15357, BE783140, R17312, AW805680, BE545692, BE778796, BE764309, AI783879, AI079534, BE695609, BE774755, BG170522, BE695566, BF875922, BE708280, BE695475, BE695472, W42817, BE815092, BE768557, AI567131, BE695450, BE695612, BE695598, AA091206, AW837053, AU128777, BE816203, AW887482, BF305224, BF918481, BF968385, T77720, AA568428, AF139897, AP001717, AP000114, AB028942, AP000303, AP000046, X63071, X63753, X63754, X71604, AL356276, M36428, AF193607, AF193597, S47241, AF193600, AF193598, and AF193599.



HOELP29	350	100535 9	1 - 1308	15 - 1322	AL530557, BE791049, BE618996, BG257624, BE731913, BE886771, BG114069, BG116664, BE856856, BF797021, AI741539, AA877855, AI800932, N32038, BF432001, BE898057, AI694373, AI808071, AA262486, AA903806, AI138931, BG255357, AA468735, AA470769, AI138466, AA954750, AI151371, N29514, AI189798, AW9771, AA814845, AI183296, AI357130, W70171, AA280787, W69944, AI186447, W69834, AI499111, BE908525, AI086208, AU129984, BG025691, W69906, H87149, AI469927, AW971625, BG250733, BF325889, BE141551, AL527393, N57458, BE696978, BE696980, AA035645, BE891620, T48534, AI188861, AI60592, AW516114, BE327105, W30843, BF745219, AI619930, BE763528, D78335, AB030700, and AA280793.
HWLFG04	351	100538 4	1 - 1040	15 - 1054	BF309040, BE727908, AW080447, AI813764, AW156901, AI624222, AI954032, BE727602, AW473780, AI861975, AV711593, AW511541, BG117850, BE892765, BE301686, BF941321, BE727148, BE877682, AA669760, AU136925, AA604124, AI186207, AI951492, AI016700, AI125916, AA081009, AI673719, AU160400, BF211379, AA173953, BG033959, AU146424, BG164551, AA666305, BE873924, AA100874, AW304292, AW471151, AW513002, AI580161, AI078833, AW068925, AI811621, AA666358, AA534849, BE786612, AA662226, AI432440, BF732965, AU150305, AI139223, AA130980, AU155685, AA707346, AA724885, AW474759, AU157841, AL120428, AV711263, AI141060, AI244874, N66401, D53110, BE834286, T57109, AI288812, BG104684, AA099214, AU156023, AI537130, AI167469, AW263441, AA173643, AU157341, AA187544, AI357914, BF084240, AA938617, AA632832, AA157933, AV714164, T33607, BE834321, AA807994, AI381658, BF086680, AA634268, AA315460, AA224251, BF086663, AA557374, T90497, AA639802, BG117431, BG118933, AA826543, AA551431, AA282337, BF726089, T69431, BF981803, W28397, AA948655, AI128023, BE727393, AA256923, AA130975, AA565098, BE728536, BG029544, H89626, BF882766, AA872943, T36145, AV748147, AA632190, AV704174, AA330174, AA130436, AI686635, AA130437, AA076099, BF086506, AA729737, AW392904, T92925, W04825, BG253169, AW802882, AA009665, AA356814, AI263840, BF211293, AA070450, BG166290, AA810386, AW392890, AA235380, AI954229, AA041269, AL520247, AA481985, BF215385, AI744430, AA928912, AA731542, AI208724, AA777668, T90593, AA887638, AI559330, AI801006, AW975764, W46171, R86972, W44443, BE928509, C02751, T25894, AI581770, BE168358, AA084634, AA358962, AW392839, AA771848, BE764142, AA894945, BE182212, BE543242, T10776, AW392836, AA394224, AA878485, BG168089, BE163936, AI582590, AA197336, BG180181, AI833003, F35679, AW768788, AW190598, AA398137, AA481889, BF726929, AI826585, R27279, AI557490, BF061257, AV702131, AI766834, AI033007, BF738475, AI811690, AA627813, BF086524, AI241386, AI248407, AW820874, T93041, AW392848, W46535, AU120330, AI096806, BE876198, BE890386, BF913319, AU137916, AI833030, AV751052, F23284, D25873, BF082805, AW852076, AA301281, AW959407, AX014875, AX017985, AF090891, U33821, AF268075, AK000098, and AC004549.

HYAAC49	352	100551 1	1 - 769	15 - 783	AUI39442, BE569198, AUI39922, C75131, AV718280, AW390194, BE865872, BF240773, BF571465, BF183939, R24772, R14521, BF184986, AUI27909, BE380148, R35572, AA385863, BF795902, BG115301, N83156, BE560295, BF243095, BF805901, BG037006, W86403, BE890587, AA322376, AUI28221, BE885883, BF218257, AA447000, BE171121, BF240001, BF666929, BE886808, AA496772, BF830589, BF102486, BE548882, BF211322, BE154533, BF434758, AI983937, U87166, AF001628, AF260262, AF006516, AF176784, U17698, AJ277071, AJ277068, AJ277067, and AJ277069.
HCOOA71	353	100584 3	1 - 680	15 - 694	BG032088, AW674754, BE793744, BE301427, AW001177, BF796457, BE222626, AA676823, AW245046, AI742447, AI086381, BE382943, AI038253, AA631108, AI432174, AV740792, N36161, AI354418, AI138537, AI435564, AA622991, AI432169, AI288565, AA412597, AI298942, AI628257, AA769383, BE731107, BF025815, AA262361, AI333049, AW138279, AA489757, AA426358, AI185088, AW071200, AA678330, AW974396, H81770, AA383464, AA325218, BF663601, AI826476, AI570948, AA758452, AI659519, AW975605, AA953294, AI351414, N94604, AI086406, AI858778, BG222816, AW474212, AI351407, AW328179, AI201546, AA426521, AA649981, AA700598, AA489649, AI085660, T99013, BE770129, BE770165, BE387301, AA827478, BE770154, AI382758, H29471, AW629408, AA852445, AA559102, H99900, F18425, BE018615, AA377901, AA714184, BE792052, BF932098, AW797213, BF898501, BE302202, R07444, AA359193, AI797445, AA639044, BE206518, AA357798, AA648070, BF765959, BF768917, AA094140, N57963, AW361814, AV744851, BG222117, AI745563, BE727188, BE170556, BE407088, BF305624, BE513977, BF129902, BF845366, AI795892, AW363952, U46389, AA357516, AA373724, AI401076, AA357714, Z96932, AF116691, I89947, and AA232683.
HOUEB45	354	100597 4	1 - 866	15 - 880	AI825882, AI696873, AI738563, AW103989, AW613147, AI268306, BE793730, AW770856, BF061575, AW051548, BF739812, BF958201, BE273154, AA858218, AI090497, AI075184, AA815445, AI381954, AI284912, AA235085, AI571911, AI218189, AA885429, AA626489, AA922962, AA424585, AW078477, AI832643, AI743823, AI221668, AI690707, T34988, AA769343, BE348685, AW769161, AI952634, AW452891, AA976512, AA687740, Z40231, AA235212, BE246574, AW572211, BF797899, AI014979, AW603755, T82196, AI766582, AI915196, AW078592, R43900, AI869134, AI524517, AI635964, T35732, N24554, AI866546, BE074731, R43261, T32374, BE265660, AA206547, F01511, AW079587, T82197, BF530913, AA235496, AW450279, AA625573, BF337280, AW979330, N33999, AI312812, BE273206, AA693982, BF927110, AA400118, BF892007, BE874163, BF814420, AW262593, AI471271, BF892003, AI003314, BF904265, BE965707, AI174819, AI344935, AV712612, BG257545, BF934149, AA648447, AB002328, AF072441, Z92546, AP000353, AL390166, AC009361, AF061947, AF308801, Y09972, AF130110, AL049430, AL050389, AF056194, I46765, AF090900, Y12226, AB029066, AF133028, AL133015, AK000502, AK026104, AF151076, X63330, AF114168, AK027114, AK026600, AF175903, AF177340, AK000285, AF124435,

HUST14	355	100601 8	1 - 2396	15 - 2410	AB052191, AF202636, Z48796, AK027200, AX015416, AK027137, and S69407. AU125044, AU125106, AU124136, AU132115, AU142302, AU123505, AU128772, BG259270, BG104503, AU127066, BE877587, BF102972, AW961540, AI819062, AW137042, AA218870, AW268435, AU159649, AI914414, BF571164, AW965326, AW021609, AW859986, AW960460, BF667479, AW859994, BF571923, AU290998, AU132875, AI805453, N42226, AA453340, AI143590, AI961984, AW965469, AU133448, AA534880, AA805995, AA478879, AA315171, AA478622, BG250380, HI0486, BF910659, AW083409, AI279728, AA022968, AI859003, AW820411, AI971338, W27642, BE940037, R35417, BE940013, AA810040, BE940009, AA909119, R71284, H30337, AI743639, TI7061, AW820415, BF913401, BE698731, H97022, BF243145, BF002853, AW604825, R13747, BE174730, AA332955, AA600911, AI086130, T87426, AA330024, AI092372, AI239430, AA461371, C01331, AI224398, N41982, AW752484, AW752492, AW051138, R14406, AW452485, AI439708, BE694190, T99701, R08328, AA091602, R58882, R16157, AW500586, AI382652, BE934080, AA252088, AI061448, W27426, BF088818, R08381, BF088814, BE880142, AW820413, BF589424, BF229364, BF913396, AI620838, BF088832, R19923, T99096, BF229365, AU154390, AA327941, AA190558, T77110, BF356534, AA738469, BE856271, AI697789, AA588155, AU151002, AU148839, AI086357, N30259, AI624125, AI859524, AA464855, AA946796, AW470143, AU153720, AW368233, R44163, AI183953, AI092159, AI803728, AI418332, BE173781, AI038144, AW022885, AK022572, AK001676, AK001754, and AF052123.
HMCDB21	356	100605 5	1 - 556	15 - 570	BE464861, AI652330, H91834, BE703983, H91879, AA759248, AA769818, AW593481, AA902687, BE972738, AW235775, AI379370, AA974129, AF100774, X57477, X57689, X57476, X57688, and U79668.
HSDEY08	357	100614 2	1 - 1956	15 - 1970	AI537989, AI533695, BG170919, BF972004, BF345100, AW026975, AI937448, AL532622, AI806907, BE378539, BF967058, BG115124, AI869308, AI150359, AW007470, AW149368, AI360337, AI479472, AW411234, AI199048, AI199509, AI300927, BF341774, BF688178, AW511458, BE296272, AI655154, AI652153, BE270387, AI377853, AI609567, AF147181, BE295186, BE270395, AI500244, AW965710, AI878920, T06902, AA354921, AI027477, AF147185, BE295192, AW050894, R72213, BE858989, BF886588, AI703318, F05831, AA077697, AA077739, AA077344, AA076971, AA506828, AW885532, AA357567, AW885629, BE811342, BE773565, AW002991, H30179, AA077004, BE269771, AA077615, BE701815, R73305, AA077477, BF953004, BE811355, BF509539, AF147184, BG149726, BE773538, BE833501, AF147190, BF247437, BF090978, H45089, AA349590, AA077534, AA402202, AA405835, AA402203, AC021097, AC005486, and U66619.
HOOJT92	358	100621 5	1 - 2631	15 - 2645	AL044704, BE271772, BF796439, BE746386, AL044621, AI051986, AA127622, AL046283, AV702820, BG121331, BE746300, BG176577, BE747570, BG035456, BE857140, AA121525, AL044622, BE315418, BF796863, AA046983, AI038252, AL040929, BF431928, BF819832,

AL042112, AV746042, AI762267, AW576260, BG054735, AA046926, AI566318, AA306434, AW995638, AI044703, BE792298, AI906041, AV727640, BE890153, AI127723, AI740576, AW664861, AI1313470, AA527000, AI207775, AI040418, AA557490, AI366695, N74245, AI245975, AA142928, AI052762, AI920858, N77404, AA046282, AA252773, AI087425, AI279057, AW375835, AI200495, H99001, W01085, AL046282, AI497903, AW381887, AA181573, AI207273, AA653703, AW177632, AI304878, BG003479, W39665, AA429789, AI289844, AV712180, AI918141, AI200594, AA452265, AI141626, AA644434, AA836771, AI032782, AA808530, AA814061, N36805, AV654396, AV745507, N35594, AA767910, AI221535, AV652231, AV652542, AI218061, AV654444, H97693, AV745455, AA723328, AA835759, AA985569, N72693, AA810912, N46022, W56530, AA160218, AI123106, AA501931, H13502, AI922239, R97354, H56263, BF809825, N52443, AV371837, H10004, Z44327, AV711658, R84311, BE297173, AA057067, AI184782, AA160217, AA452019, AV691968, BF827721, F07113, R91721, AI391734, AW505407, N30664, BF808619, T30620, AA614417, AI630683, R68976, T64244, T64245, AA983665, AW301268, AA987678, AI922854, W15438, T55108, R81971, Z40206, AW576345, T34877, H04944, AA027231, AW062347, AA257122, AW177630, AA365300, AA716275, R81970, C17340, T23595, AA300903, T79201, R92157, AA029312, AI051495, H65726, D78944, AI364999, F03460, AI963749, W02474, AI683695, BF197190, AA299766, AA992820, AI683346, T34458, H56067, T99255, BF360729, AA928958, T79288, H65727, AI445601, BE547173, AI089366, T99213, H10005, AA056922, BE090881, AA262378, BF828251, N53438, AA854711, R87674, AA027183, AW084848, C15505, D81561, BE825603, T81836, AW769631, T55275, BF994799, R68977, R97317, AI685486, AW026938, H13449, AW604084, AI537015, AW873677, AW869170, T81309, AA262245, BF339805, AI804838, AI668136, AI520943, BF092526, AW769695, AI539776, AL049780, AL117502, L40402, AC007055, AF113694, AL096762, AL035458, AL158830, AC010201, AL162615, AL356010, AL021997, D86992, AP001710, AC008403, AC073884, AL078581, AC004983, D88270, AC005052, AC005632, AC005512, AC073327, AC007021, AC011716, U63313, U62317, Z95703, AC005920, AC006138, AP001717, AL078477, AL049829, AP000553, AC018751, AC011479, AC005659, AP000116, AC007637, AL133451, AL080315, AL139331, AC009248, AC005778, AL096791, AL031427, AC009307, AF254983, AC005800, AC004067, Z98257, AP001720, AL035704, U91318, AL133519, AC007686, AC005058, AC008687, AL135744, Z95113, AL121881, AC005082, AL023879, AL390028, AP000036, AC009756, AC007597, AF275948, AC005209, AC003042, AL021546, AL163201, AL035086, AL021397, AC002430, AC004148, AC007882, AC005695, AC002037, AL034417, AP000048, AC004846, AC003109, AC009516, AC010473, AC009424, AL162505, AC007384, AC010102, AF227510, AL161892, AL356747, AC022432, AC003006, AL353574, AC007388, AL022153, AC024247, AC002316, AL049776, Z93015, AL117378, AP000356, AP000354, AC010977, AC008379, AC005255, AL138680, AP001429,

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HNORE03	359	100625 0	1 - 848	15 - 862	AV700281, BF111882, BE858353, BF509559, AU144292, AI797616, AI911080, AI417220, AW592473, BF509133, BE677749, AW023813, BE465084, AI207263, AA393266, AA398669, BE173478, BG115116, BF792961, BF970768, AL043345, AI909697, BG179993, AI812015, BF343286, AW161156, BF133371, AV702833, AA641818, AW130930, BG105895, AI923989, AW161579, BE789764, AW827206, AI500061, AI572021, BE927769, AW051088, BG113188, BF814527, AL048656, AI859991, AV654374, AL047275, AI525653, AI567582, BF856052, AV757737, AL514093, AI783997, BG058150, BF527014, AV714085, AW132056, BG164575, AI863382, AI783504, AW020095, BF970652, AI434741, AI284131, AW118518, AI702073, BF895953, BE011880, AA814407, BE877467, BF905454, AI249497, AL040694, AV709522, AW162194, AL135517, AI536685, AV650703, AW983783, AI570807, AW071417, AW151136, AL514097, BF814357, AI564719, BE538997, AI620089, AA449768, AI288305, BE886844, AW983829, AI886753, AI933589, AW026882, AI635067, AI923370, AI868931, AW149925, BF924869, AL513937, BF812960, AI537261, AI539771, AI432030, BF812938, BF752245, AI612852, AI590630, AI886415, AI634251, AW148408, AI862144, AI433157, BG029829, BE545500, AI886123, AI499285, BE927743, AI472536, AW168485, BE880498, AW827103, BF812961, AI866090, AI620284, AL039086, BG029086, AI250369, AI445992, AI445990, BG261282, BG259763, BG260287, AI891084, AI866770, BF814420, AI633125, AL046618, AV682575, AW983832, BF812936, AI698391, AI627988, BG036846, BG256090, AI677796, AL079963, AI915291, AW152182, AI640729, AW022699, AW089275, AI582932, BF726207, AI889189, AI521560, AL514473, AI683128, AI890907, BF856017, AI473536, AW008166, AV741327, BF816037, AI824576, BG257535, AV682479, AW162118, AI862139, AI270183, BG033732, BG110517, BG109857, AL119863, BG164558, BF338002, AI815855, AW238688, AI670009, AI537244, BF814450, BG036614, AW834302, W74529, AI525669, AV759831, BE963838, BE536058, BE964614, BE785868, AL036403, AV682787, AW020693, BE620444, AW673679, AI523806, AI623941, AV734318, AI537677, AI971615, AW051059, AV758477, BE546870, AI860003, AI868204, AV735353, AL048323, AV760409, AI919534, AI648684, AI150993, BF245586, AL513991, BG113299, AL048340, AI863321, AI368943, AI624293, AI284517, AW302988, AI889376, AL047422, AL037030, AI345745, AL036631, AI286256, AL513775, AI269862, AI873644, AI440448, AL513817, F27788, AW192652, AI863191, AI802542, AL514919, AW827249, AI432040, BE047852, AI242248, AW083778,

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HPCTS21	360	100631 7	1 - 2644	15 - 2658	BE738670, AW969031, BG033369, AV723811, BF185746, AA496142, BG167304, BF526442, AW071692, BF691470, BE219222, AI569569, AW411538, AA768873, AA496143, AA975521, AI286012, BE737698, AI476316, AW473390, AV719519, AW593323, AA714205, AW341557, AA451627, AI697737, BF515831, BE207441, AA504417, AI685337, AW301603, BF693927,

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HFATL31	361	100639 9	1 - 986	15 - 1000		AI808778, BG054989, BE857601, BE885329, BE881349, AW304934, AW962192, BE712961, AI880009, A1815709, AW163154, AA526969, A1150509, AW161293, A1146808, BE712850, AI088675, AA722187, A1990261, AW451154, BE712843, AW449490, AW161970, AA115532, AI983943, A1492618, BE712919, BF589503, BE712889, BE713004, AW162759, AA719439, M79223, A1804223, BF939296, AW972384, H97676, AA552629, R76719, H41614, D80207, T31248, A1796667, R75663, H13188, H13189, H18312, BF886117, BF762457, W23735, AA115533, A1203992, H97439, D56295, A1832722, W35334, A1432110, AA084432, AW157796, H18170, H40836, A1916646, BF977122, AW083168, AA602325, BF338333, BF131373, A1434123, AW880236, BF726099, A1654105, BF726100, BG029058, BF339019, AI086254, A1118520, AR075096, U05784, AF119856, AL050015, X00861, AF113676, X87224, AL359382, U72882, A1131955, AR059958, AL389951, A1133014, Z97180, AF218005, AF159141, I00734, AB016496, AF217972, AR095619, AL355713, AR095635, AB007812, AF188698, E00617, E00717, E00778, and AF144093.
HE2JE77	362	100644 5	1 - 561	15 - 575		AV763983, AV726509, AV724045, AA484895, AV717042, AA491575, BF665912, AV752886, AV704858, BG171129, BE295759, AV759175, BF212041, A1133335, AW954146, AV718303, BF697058, BF575185, AV716398, BF695081, W40182, W19621, H74259, BF574703, AW959573, AV763693, AV714436, BF747404, AV761405, BG171057, AV760476, AA298804, BF666224, A1929471, AA296780, BE781598, A1815460, A1541337, N29084, N36756, H87040, AW959568, AV738107, BG121116, AA297887, BE513823, BF979410, BF697403, D56475, BE706808, N98570, W31214, AV712776, BE693502, BE513154, BE065121, AA298012, AV716021, AV751542, BE065135, H83627, AV690262, AA298961, AV660329, AA297588, AV371999, BF994508, AA297029, BF214397, BF980359, BF239553, AA297868, AW748993, AA297949, AV712048, AA297436, AW362946, AF121166, BF805496, BE774733, W85999, BE828311, AA257047, BE774859, AV732932, AW576707, A1126303, N77409, AV694284, BF765220, A1086042, BF807758, W21542, BE693520, N79915, BF335710, BF807687, A1885697, BF807695, BF807764, A1816403, BF378424, AA724019, AV722344, A1740446, A1001781, A1880801, H75925, AA412714, AA091861, AA251819, AA489131, AW968954, BE222943, AR051263, AF078848, AF201948, and S54914.
HCBNX87	363	100647	1 - 934	15 - 948		AA195189, A1872284, AW770858, AA195225, A1970956, BE219722, BE856129, BE348445,

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HNTD168	364	100648 3	1 - 3266	15 - 3280	BG255574, BF797869, BF688018, AA088346, AL046406, AA626207, AA148554, AW271825, AW771157, AA123267, AA121480, AI123736, AI074017, AA419583, AA250725, AA150178, AA308446, AI470940, AA903233, AA088345, AA055608, NZ2856, AA253428, N45057, AW770308, AA055472, H27374, BE676183, AI221091, AA993376, AA401499, AA400257, and BG230996.
HTRAA05	365	100651 2	1 - 561	15 - 575	AI742386, AI524073, AI401286, BE561354, BE295468, BE267749, BE513336, AI459535, AI889934, AW962270, BE712449, BE712458, BE695348, BE712281, BF106390, BE560144, AI927392, BF727086, AI160850, BE792824, AW081202, AW029525, AI814545, AA701033, AV703327, AW104087, AI886582, AA575902, BE695412, BE712223, BE712220, BE695398, BE712549, BE695418, BE712279, BE712505, BE712319, BE712008, BE695425, BE712770, BE695432, BE712628, BE712414, BE712498, BE712213, BE712504, BE695389, BE695426, BE712510, BE712170, BE712624, BE712232, BE712047, BE712014, BE695407, BE712104, BE712166, BE695391, BE695427, BE711646, BE712506, BE712331, BE695413, BE695403, BE712285, BE711560, BE712102, BE712622, BE712773, BE712502, AA770666, BE695378, BE712050, BE695420, BE712334, BE695373, BE712544, BE712724, BE712548, BE712555, BE712553, BE712222, BE711652, BE712547, BE712787, BE712108, BE695422, BE712212, BE712103, BE695419, BE712211, BE712421, BE695416, BE695424, BE695401, BE695384, BE711604, BE695436, BE695415, BE711760, BE695364, BE712430, BE712326, BE695429, BE695417, BE695404, BE695431, BE695423, BE695408, BE712231, BE695360, BE712670, BE711986, BE695409, BE712391, BE712668, BE695375, BE695395, BE711558, AA976480, AA767170, BE712324, BE695428, BE695402, BE695344, BE712587, BE695345, BE695374, AW591351, BE695382, AA576980, BE711587, BE712454, AA384751, BE712392, BF726553, BE712100, BE712507, AA687454, BE712322, BE712771, BE695414, BE695400, BE695434, BE712171, BE695362, AI367957, AA687513, BE711670, BE695381, BE695358, BE695368, BE711532, BF112286, BE712160, BE711502, BE711500, BE711535, BE695405, BE695346, BE695361, BE711842, AW079821, BE695377, BE712221, BE712045, BE712162, BE828330, BE695433, BE695421, AA352952, BE695355, BE695365, BE711508, BE695351, BE695383, BE695359, BE695379, BE712101, BE695350, BF837811, BE711614, BE711657, BE695352, BE695376, AW370204, AW510617, BE712003, BE711603, BE828321, BE695392, BE695410, AI460272, BE695393, BE856500, AI309112, AA907009, BE712456, AA411532, AI739011, T71962, AA507928, BE695430, BE828315, BE828313, D60602, BE828312, AA317838, BE712474, AV688621, T81771, BE327944, BE695356, AA662912, BE711542, BE940444,



HMTAL96	366	100663 5	1 - 1821	15 - 1835	AA522896, BE695380, AW071632, and T71693. AU121947, AU133408, BG107816, BF978353, BG167070, AU136479, AI912625, BE787533, AL043108, BF978689, BG118584, BF575979, AW946781, AA541465, BE896118, BF242492, BF673227, BF746774, AI769406, BF573737, AI677825, AA843784, N90942, BF679753, AI133947, BF340046, AI122639, BF338412, AI956122, W58349, BF674910, AW946784, AI146802, AA433844, AV721278, BF213289, AI829684, AI248810, AW148927, BE549681, AI634356, AI693209, AA313329, AV721952, AW015279, AV721448, AW970646, W48807, N33995, AA770568, BF570691, BE046360, AI200909, W52177, BF670447, AW337556, AI925678, AW137200, AW946872, AA740996, AW473986, AA044616, AI088578, BF986183, AI302975, W58474, BF572827, AA176436, BG149747, N36852, AI090980, AW440100, AI814300, BG031130, AW403227, AA846487, W52178, W60313, W60262, BF577093, R80598, N35139, AW080740, BF930195, N46123, BE891377, BG231991, R80597, AA178883, R23907, AI244465, AW027841, AV707552, N36871, AA262561, AA626808, AI127632, R24938, AA158096, AV705840, N46141, AA165152, AA165180, H94816, T28111, H89174, AI523244, BE539497, AW876080, AA885512, N32999, AA042803, AI291968, AW271335, AI374631, AI928012, AI582354, AA905984, AI391678, AA654121, AI470822, AI659820, AU150290, AI435866, AA478972, AI672499, AA782245, AI683540, AI242454, AI963948, AA098811, AW974863, AI970953, AA098979, W47019, N24550, AI656583, AA098926, AI811590, AI346328, AI702054, AI926667, AI565050, AI669676, AW300195, AA626702, AI078689, D20104, AI910690, AA991913, H80964, T70014, BE041620, AI432060, AA329386, F00987, AA677620, AA450363, BE328391, AA100143, R82731, AV749441, AI912968, AI681692, BE219987, N89579, BF575528, R23125, R23127, H83940, AW404323, BF446671, AA730321, BE253861, AA069494, AA808762, AA370257, Z28753, T29433, BF732515, AI365551, AW502459, AA243213, T39145, BF530380, AW795398, AA973669, W46200, BE183279, AA836447, W23989, BF105047, T39150, W17101, BE041692, BE827333, N91885, AA453560, D45259, T10404, N47782, AA091310, AV749903, R23998, T27528, AA165310, AA248615, R23906, AI420657, BF240034, AA80895, R31791, BE006042, AA089814, AV718352, BF447937, BF003074, AA863104, AI095737, BE220393, BG236248, AI420216, AI597664, AI972622, AA523550, BG036924, AI674511, BE673195, BF446200, BE550809, AA913502, AI218901, AI827982, BE674363, AX017503, AC018682, A93912, AL139099, AB031482, M31470, A93910, D49727, AF196993, AF197014, D50264, D49726, D49725, R62747, AA853568, AA916254, and AA969277. AI911957, AW804755, AI862391, BE067582, AI301580, BE067581, BG033220, AW817932, AI591299, R62701, AI590522, AA502683, AL040034, AA634017, BF991208, AW273830, BE261047, AI344810, AW021774, AI590459, BF767878, AW302983, AA579469, AI870204, BE243098, AI345123, BF854038, BF810071, AV710482, AI597820, AW303254, BF832078, AL133668, AA077776, BF925233, H05073, AI345550, AA634889, BF149427, AA634781,
HDTJP21	367	100685 8	1 - 693	15 - 707	

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HISEQ81	368	100694 3	1 - 500	15 - 514	<p>AW901261, AA251070, AW967582, AA663366, AU121481, BF903105, AC007883, AL356115, AC0078847, AC009276, AL360078, AC016617, AL035663, AL109922, AL139090, AL121969, AC008085, AC009518, U85196, AF045450, AC006023, AC004707, AE000660, AC026439, AL138718, AF135487, AC004897, AL163280, AL031390, AL133247, AL162430,</p>

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HODFH02	369	100695 3	1 - 603	15 - 617		AW966385, AV700495, AW973541, AV718487, AV720211, AV720729, AV720104, AV719632, AV719822, AV701335, AV701332, AV701248, AV701431, AV701043, AV701017, AV701357, AW966342, AV699866, AW975623, AW973470, AV720616, T06155, AV718427, AV699746, D88547, and AC003010.
HOCPP18	370	100723 0	1 - 759	15 - 773		AI743840, BE877930, BF028625, AW968831, BG171528, BF244687, BF034731, BE738082, BF696564, BG249379, BE262610, AW610031, BF675618, AI168679, BF184298, AW582660, AW610024, AW610015, BF432167, AW582658, AW382645, AI368790, AW582649, AW404414, AA635047, AA977202, AA255745, AW609460, W74224, AI189196, W19875, AA423814, AW873607, AW674957, AA700205, N34074, AW673317, AI693774, BF207680, AA490434, AA811988, AA687682, H59322, AW675671, N25686, AA043487, BE738236, AA384027, AA970715, W03959, AA099633, N91486, AA844086, AW970706, H64607, AW361070, AA576387, AA527550, AI380149, BG180768, BF742317, AI149307, AI139270, BF334168, AA643654, BF965959, AI018593, AA513014, AA101966, BG180833, AI089738, AA419058, AI041791, AW139976, N73897, W74225, AW361045, H70242, AW024571, AA126714, AW271818, AI143332, H82629, AW958804, R26807, BE047049, AA987943, T85639, AI857573, AV687372, N22461, AW268579, AA090516, AW651630, AI244767, AA877283, BE041685, AA426291, BE765584, AA136056, AI819235, N56136, AI241275, T79549, N56398, R26004, AA889245, BG153704, AA641594, AA873098, AA757925, AW879744, AA043488, AK000666, AF150100, AL163279, AF150101, AF152353, and AF150102.
HODFP91	371	100794 1	1 - 1747	15 - 1761		BG253213, BF681335, BF372572, BF679493, AA420666, BF678593, BF327033, AI804263, AV704486, AI275402, N33388, W78024, AI083839, AI337610, T92186, T89120, N23972, BF371272, AA658363, BF370329, AI798226, AA253483, AI216498, AA234181, AI216502, R59949, AA253313, BG105540, N31873, AA225664, T89209, AW593695, AA662620, AA528445, AA513944, BF326921, AL042210, AI179786, AI669285, AW964036, AA352063, AI080345, R59948, AI344783, AA180503, BF891183, AW515141, AW997169, AA225610, BE940088, N98709, AA206457, BG003461, AR070464, and AL359561.

H6EDU06	372	100797 6	1 - 574	15 - 588	<p> AV706787, BE907476, BF026598, AW070517, AV721296, AA156834, AI53893, BE675928, AI288705, AI762669, AW273834, AW024561, AI312660, AI138250, BE672892, AA626719, AA594341, AW974501, AI219985, AW071929, AA828157, AI309908, AI057511, AI268592, AI286041, AI870386, BG222673, AW303596, AA156597, AA812762, AI039165, AI024129, AI089622, AA456739, AI224451, AA989383, AA482452, AI803068, AA417820, AA994692, AI051535, AI801913, AI672921, AI800826, AA494488, AA455184, AI025564, AA954675, AI807763, AW952786, AA862743, AA887974, T98015, AI240669, AA977347, AA972180, AI368505, W24116, AA933043, AI784667, AA934066, AW183454, AI868633, AA907741, AW663428, T86139, AW205935, T89455, AI245098, AA513366, AA515593, AA338859, AA813534, AA115080, BE672891, AI381801, F17301, C03097, AI659028, AA216001, Z42400, N91938, AI913851, AA992249, Z19268, AA365163, AI420340, AI656368, AA648946, AI583724, AA92479, C03931, AA770117, BE185666, AA479458, AV702417, AW964409, AV729376, AW960655, AW954134, AV652001, AV651955, AW963027, AW951270, AV725153, AV706417, AW964585, AW953807, AV702789, AW949478, AW962386, AV709273, AV703790, AW964440, AV709092, AW950443, AW960601, AW952403, AW952183, AW959806, AV656903, AV661704, AV697196, AW952751, AW956075, AV645936, AV709587, AW955723, AV658084, AV692600, AV650315, AV659389, AV697880, AV727613, AW955900, AV656373, AV726010, AV655280, AV660258, AV647789, AV708109, AW959521, AW956474, AV659294, AV727787, AV703146, AV686060, AV725745, AW951239, AV680604, AV660608, AV728148, AV659322, AV726156, AV654908, AV726590, AV656478, AV698545, AV709314, AV653353, AV708381, AV654070, AV660728, AV691080, AW951281, AV702385, AW949802, AV658275, AW955662, AV703669, AV707979, AV658751, AV727003, AV709580, AV725208, AV725582, AV708786, AW957517, AV659547, AW959543, AV727526, AV707155, AV703169, AV651920, AV725618, AW954439, AV727510, AV725633, AV707088, AV652156, AV728518, AV702266, AV725577, AV725033, AV706223, AV728924, AV725617, AW954206, AV727935, AV707863, AV725991, AV707304, AV696931, AW964421, AV726619, AW952410, AV703062, AV727822, AV699089, AV705135, AV701874, AW950888, AW962444, AV703501, AV702772, AW954237, AV701180, AW950258, AV707401, AV701183, AV709660, AV704585, AV709935, AV654035, AV707652, AV707654, AV728721, AV707663, AV683994, AV704042, AV654282, AV729220, AV709880, AV697288, AV698290, AV687035, AV706882, AV704847, AV694836, AV697498, AV702954, AV686420, AV694812, AV727238, AV682997, AV696866, AV727126, AV707656, AK026514, AF151894, AC004789, AX047063, AR050070, A62298, AF217994, Y08991, AX047062, A82595, A82593, Z30183, AX047064, U94592, S68736, AX009343, AX009341, AX009337, AX009335, AX009345, AX009342, AX009344, AX009340, AX009339, AX009336, </p>
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HPCRD26	373	100801 3	1 - 1320	15 - 1334	AX009338, AX009334, A62300, AX040581, Y11505, AF006072, U45328, A91160, AR025466, AX046743, A1289208, and A1424481. AL522813, AL522021, AL515238, AL534210, AL527634, BE881394, BF967335, AL522812, BG168951, BE547168, BF683070, BE018646, BE251740, AA150675, AW007510, AW772448, AL515237, AA557210, W81295, BE970056, BF967686, BF511071, AL535783, AW161414, AI905116, AA128693, N69846, Z43685, AW006138, AW274433, BE903335, AW594670, AI521862, AI905108, AW027481, BE302221, W17116, AI695301, AI300237, W93915, AA378300, AW793014, BG180670, AA866170, AA155990, AI655474, BF934862, AW084679, AW264238, BF765898, AI384123, AI357889, AA248880, AI367177, AI918724, AW304833, AI816910, AW264332, AA701939, AW303940, AI285409, AW166173, AW235873, N83196, AW890020, AI565254, F25724, AW384463, AW384462, AI204007, AW384518, AW384495, AA630995, AW384515, AW392814, BE672909, BE156493, R17296, AA055886, BF439599, AA249576, AA772667, AI660862, BE567686, AW384559, AA630973, H77417, AA249786, BF763245, AI291050, AI278942, AA658504, W81238, N98875, AA503728, AI015881, AA261778, AC005915, I89946, and I89945. BF591295, AI223817, BF064033, AI432306, AI732756, AI732256, AI827789, AW270969, AI458391, BE826171, AI820678, BF062424, AI734150, AA487683, BE645984, BF002863, AI073913, AA487468, AI521059, AI906906, AI906910, AI905072, T94990, T94936, AW015443, BE075729, BF512129, AA708803, AI810047, AC004993, and AF106066.
	374	100802 7	1 - 757	15 - 771	AW753589, AW959236, BE742519, W32940, W15186, N73147, T82084, AA294934, AA211695, AI905700, BF032776, AA354566, AW837086, AA468796, and AC007655. AL536332, AL515984, AU125142, AA639765, AI281923, AU125056, AW953648, BE734342, BG167105, BE794775, BE729038, BG260021, AI72989, BE729258, AI720031, BE677682, AW088074, AW300735, BE789911, BF206718, BE408591, AI768419, AI768875, BG027265, AU135162, AA482024, AI745443, AA514479, BE046393, AA627864, AI928477, AA528026, BE391197, BE395201, AA846720, BE391155, BG166973, AW104771, BE741552, AW673933, AI017373, AL515985, AA527494, AI215852, AI871626, AW205622, AA045396, BE390376, BF111620, AW612025, AW291747, AW295357, AW087156, AA722864, AI694451, BE076330, AA574156, W07767, BG001290, AI613494, BE515246, AI630897, AW959218, AA866004, BE671294, BE778573, N21002, BE503277, AA436970, AA577399, BF087009, AA485992, AI609811, BE567267, AW594105, BE745288, AW614636, AA987612, AI373242, AA595033, AW602847, AA908276, AA442981, AI261446, AW271584, BE277529, BF224222, AI858763, AW577571, AW297117, AI914132, AI086874, AA946951, AI864703, BE675612, AI365469, AI089624, AA417570, AI205853, W76670, AW779982, AI797948, AW975076, AI801899, AI654944, AL134914, BE275008, AA045080, AA315298, H17040, BE731460, BF668517, AA281453, W80506, BE729487, C06206, AA458469, W72604, H85386, AI261797, BE348343, C05666, AV742478, AW951164, AI300450, BE774706, BE791627, BE796924,
HSIEH63	375	100807 1	1 - 819	15 - 833	
HPASD51	376	100815 4	1 - 2570	15 - 2584	

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HNTBU30	377	100817 7	1 - 4084	15 - 4098	AU125982, AW953485, AU125447, AU124785, AW001101, BG110603, BF974285, AL040867, AL040866, BF725360, BE868091, BG104583, AW090092, BG121189, AW190132, AI355864, AW889900, BE378250, AL041116, BE548940, BE256037, BF941323, BF034153, BE547709, AU132530, BG106299, AI651097, AI359516, AW080364, AW383973, AL524978, AW362784, AW753817, AI148869, AI393562, AW675581, AA456283, AU149111, AU132763, AU154232, AU149535, AL046765, AU154467, AA400563, AA706610, AW004969, AW836789, AW836786, AA454671, AW373589, AU154038, AI797555, AI367629, AA400150, AA313215, AI018014, AI288449, D53070, AU148577, AA535371, AW836788, BE813630, AW363230, AA029231, AA029232, AW026702, BF887882, AA453842, AA649925, BF887870, AW605323, AA400176, AI094511, AL040652, BE855545, AW937579, AI421670, AI423472, BF753305, AA233312, BF357897, T09488, BE873172, AA683594, AW628747, BF848580, AI371901, R18421, D53589, AA400392, AA586607, AI453237, BF590559, AA227274, D53194, AW999617, D52887, AA514956, D53211, AA233313, AI905503, AA227283, BE070741, AI683301, T23587, T77686, H91031, BF081251, AI916759, AA322214, BE070726, AA453758, C00385, BE694440, BE938121, D53071, D53128, Z25342, BF081249, AI911435, D53754, AI378143, H90918, AI911691, AI72899, H88808, AW754123, AI916908, AI200242, BE070582, AI270551, H89032, AI424142, BF332451, AW580296, AI955188, AW295174, T09487, AW072241, R42483, R38392, BF842266, AA249047, D53193, AW602313, AW857035, D53127, D53210, AW611973, D53588, BF357733, AI910768, BE858745, BF194823, AI905504, AA005312, BF378122, BF820885, AI307564, AI818299, BE814287, BE814349, BF334589, BE814606, BF378140, AW512399, AW364841, BE825640, AW512554, AB002366, AK024705, AK025689, AK027063, and AF052139.
HCOPZ14	378	100817 9	1 - 1070	15 - 1084	AW934723, H37994, AI498824, H92316, AA426342, AA702719, AI128833, AA994942, BF593832, AA932972, AA808375, AA946572, AA369769, AA594909, AA806051, H20466,

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HODEC78	379	100829 9	1 - 1457	15 - 1471	AA287686, AA207154, AU154168, AA179206, BF959881, AI640238, AU132680, BF194738, BF940404, AW135518, BE742576, AI192959, AI694946, AI523667, AW204593, AW002521, AI356297, AI361894, AI914362, AI300563, AI952850, AI361750, AI768922, AI582698, AI356535, BE772693, BF061364, BE552169, AW013899, H33373, AA018189, BE276307, AW960051, AA749310, BF433855, AA366409, AA769579, H87151, H87035, AI868789, AA464267, AA249429, AI816088, AA471320, BE256470, AW367751, AW391782, BF931655, AI580257, AA101455, BF961680, BE745650, AA973114, U90028, and U90029.
HODEF29	380	100830 4	1 - 413	15 - 427	AW949656, AW949631, AW949643, AW949618, AW949642, AW949655, D80022, D80212, C14389, AW975618, D80166, D81030, D59619, D80210, D80240, AV720211, AW975605, AW966013, AW960454, C14331, D80219, D51423, AV718844, AW966531, AV723927,

D80195, AV699550, AW966075, AW966053, AW966065, AW960533, AV718707, AV719822, AV720878, AV718692, AW978634, AV719324, AW949653, AW973488, AA305409, AW959799, D59859, AW975621, AW973334, AW966029, AV718938, AV718633, AW973474, AW975613, D59502, AW978661, D51799, AW960465, D80253, D80045, AV718489, AW973307, AW966534, AV718931, AV719557, AV720731, AW959202, AV699447, AW958993, AV722801, AW959136, D58283, AW966022, C15076, AW956397, AW962245, AW973482, D80188, AW966041, AW965163, D80391, D80164, AW973541, AW966054, AW978648, AW966050, D59787, AV719783, D59467, AV719468, AV718800, AW965185, AW965197, D59275, AW965196, AW965184, AV720791, AV720464, AV718770, AW973330, AV720203, AW964756, AV719188, D80043, D80193, AW960473, AW966062, AV718440, AV724520, AV720028, AW959597, AW959628, D57483, AW960473, AW965177, AW959570, AW949654, AW973485, AW965175, AW960564, AW958992, AW959062, AW964477, AW956434, AW964488, AW949641, AW962082, AV699927, D80366, D59927, D80196, AW966059, D59889, AW973447, AV699746, D80024, AV700889, AW964737, AW959582, D59610, AW949629, AW949645, AW949657, AW966043, D80269, D80038, D50979, D50995, AW949646, AW949658, D51060, AV721386, AW965158, AW949633, AW949632, AV701004, D80378, D80241, AW966023, AW753053, AV720812, C14014, AV723097, AW949630, AW959469, AW966030, AW960504, AW960532, AW975623, T03269, AW966032, AW752082, AV718530, C75259, AW960570, AV719049, D51022, AW178893, AV700229, AV720533, AV699682, AW179328, AV699669, AV720654, AW965176, AW177440, AV744690, AW960474, AV742001, AV742667, AV701125, AV701335, AV701166, AV742430, AV701149, AA305578, AV701043, AV701332, AV701017, AV701248, D80134, AV742048, AV701431, AV699866, AW964468, D80248, AV720150, AW973490, AW966386, AV645389, AV645344, AW964532, AW966397, D81026, D80949, AV701130, AW973465, AV701419, AW378532, AW964766, AV701154, AV701422, AW962395, AV719628, AV681510, D80251, AV681491, AV699652, AW178775, AA514186, AV720616, AW966049, D51250, AW951169, AW949620, D80133, AW369651, AV700159, AV701443, D80064, D80268, AV720755, AV699479, AA514188, AW966360, AW966368, C14298, AW753041, AV645343, F13647, AV742022, AW178762, AV701357, AR018138, A62298, AX033851, AR070327, A84916, A62300, AX027925, AJ132110, AX047063, AX047064, A67220, AX021518, D26022, X67155, AX035434, A25909, Y17188, AR008278, D89785, AX020191, A78862, D34614, AJ302649, AX020190, AF058696, AB028859, AR077702, AX047062, D88547, AX028130, AR092424, AR087649, X82626, AJ294956, Y12724, AR025207, A82595, A94995, AF260572, AR060385, AB002449, AR008443, AR074545, AB012117, AX015396, X68127, I50126, I50132, I50128, I50133, AJ287395, A85396, AR074141, AR060138, AR066482, A44171, AR088705, AX042372, AR066488, AR016514, A85477, I19525, A86792, A45456, A26615, AR052274, AR074139, A43192, AR016514, A85477, I19525, A86792, A45456, A26615, AR052274, AR074139, A43192,					
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HODFB71	381	100830 7	1 - 2721	15 - 2735		<p>AU120186, AV685205, BE745578, AW341085, AI813997, AW075717, BE879613, AW867043, AU128403, AI890853, W95819, AV699386, BE871865, AW207613, BF753636, BE841070, BG153422, AW842415, AI860247, AW009804, AW965308, BE263478, BE350007, AV650178, AW855840, BE645948, BF244293, AW387603, AW387588, AW387570, AW593809, AI813990, AW387594, AI123331, AI814498, BF930287, W95812, AI027130, BG058688, AW297937, BF439051, AW953145, AW581872, AW387567, BE897145, BE894405, AW387565, AA683545, AA514682, AI912084, BE707577, AA284269, BE892060, N25435, AW387551, BF224192, AI801414, AI333144, AW387589, W93061, AI792762, BF897938, AI921027, N39823, AI700761, AI630416, AW613975, AW387543, W52833, BF346511, BF446460, BF433036, AU146326, BF806592, BF436925, AW194002, AA416940, AI539420, AA609176, AI803042, AI688409, N36974, AI095658, AA625154, AA454670, AI015532, AA532391, AI801045, AW304056, AI078810, AW515831, AA313278, AI143830, BF434547, AW073517, AA164477, AW300683, AW387511, AI246195, AI126120, BF194737, AI204238, AI224979, AI363320, AI934406, AI828474, W32859, AW191965, AI452492, AA326596, AW387659, BF887732, AI420557, BE698600, AW512903, AA256049, BF849038, AW806880, AW235154, BE874184, W77847, AI400008, BE841041, BE467240, AI830985, AI819550, AA609278, AV688552, AI340483, BE937015, AA773239, N20374, AA047705, AI273578, AI090700, BF957505, W32413, N39416, AV699803, AI224389, AI439451, AI225075, AI312377, AV706867, AW609073, AI624708, AW444879, AA705899, AA169495, AA235411, AA418233, AU157570, AI076652, AW504319, AI433744, AI159961, BF241608, BE167847, AW841184, AI383240, AI935502, AI435339, D80852, BE047423, AW963146, AA918609, BE843310, AW820003, AV683152, W60585, AI630381, AA662503, AA164478, T33091, BF085221, BE004440, AW366124, BE160282, AI131034, AI675203, AW841228, AW021700, AA626105, AA470040, AI815749, AW581865, AI263359, BF850458, BF591953, AA994256, Z43339, N26670, AA541443, AI475319, AW609556, AI244156, BF849414, N92397, AI267587, W01875, AA886220, W24664, AW237704, AI254748, AA628384, AW020806, AA707127, AV656105, BF924070, W24714, AI040523, AA169701, AW163817, AW576279, BF849416, AI225071, N69026, BF922788, AV686309, AW866508, Z46156, BE768257, BF801569, BE710784, R43868, BF842346, AA854079, AI656170, AA324005, AA229840, T95094, AA324001, BF842366, AA047672, Z39414, BE082315, AI167468, AI300698, AA320833, AA994140, AW382298, N39669, W72123, AI183682, AI678525,</p>

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HODEF78	382	100831 4	1 - 538	15 - 552	AW872474, AV723927, AV720211, AW966013, AW966053, D81030, AW975618, AW959597, CI5076, AW975621, AW949642, C14389, D80212, D80164, AV719468, D80022, AW978648, AW949656, AV718692, D59502, D59927, AW978634, AW966050, D80195, AW960465, D80045, AW949631, AW949643, AW949618, AW966054, D59467, AV719783, AW966534, AW966065, AV720464, AV718800, D80253, AV718707, D80166, AW966531, AV724520, D80391, AW949654, D80193, AV718844, AW966041, D59619, AW959570, D80210, D80240, AW965185, AW965197, D80043, AW966022, D59275, AW966075, D51060, AV720791, AV719188, AW966029, D59787, D80196, D80227, AW966062, D58283, AW949641, AV699927, D80038, AW959799, AW958992, D80366, AW973334, D59859, AV719822, D80219, AW960553, AW965175, D51423, AV719324, AW959062, AW964477, AW978661, D51799, AW949646, AV718489, AV720203, AV718770, AW973307, AW959202, AV718440, AV720028, AV718633, AW959628, AW965177, AW975605, AW949658, AW973485, AW965184, D80269, AW973541, AV718931, AV719557, AV720731, AW959582, AV699447, C14331, AV722801, AW973474, AV699550, AW964488, AW965163, AW973488, D50979, AW964756, D80188, AV718938, D80024, AW949655, AW960454, AW973482, AW958993, AW959136, AW956434, AW962082, AW949653, D57483, AW965158, AW966043, AW962245, AW965196, AV718530, D50995, AW949630, AW975613, AV723097, AW964737, D59889, AW960473, AA305409, AV720878, AW960564, D80378, D59610, AV720812, AW949629, AW949645, AW949633, AW949632, AW753053, AW949657, AW973330, AW973447, AW956397, AV721386, AW966059, AV700229, AW960532, C14429, AW966023, AV699746, AW959469, AV720150, D80241, AW960570,

					AV700889, AW960504, AV699669, AW752082, AV701004, AW966032, AV720654, AW966030, AV699682, T03269, AW975623, AW178893, C75259, C14014, AV719049, AV742001, AV742667, D51022, AV701125, AV701335, AV701166, AV742430, AV701043, AV701332, AV701017, AV701248, AV742048, AW179328, AV701431, AW965176, AV744690, AA305578, AV701149, D81026, AW177440, AV719913, AW378532, AV681510, AV681491, AV720533, D80268, AW966049, AV720755, AW960474, AW973465, AW964532, AV701130, AV701419, AV701357, D59695, AV701154, AV701422, D80134, AV719628, AV645389, AV645344, D80251, AW964766, AV700159, AW377671, AW178775, AV701443, D52291, AW951169, AW966560, AV699479, AW369651, AV645343, AW960414, AW964468, AV719727, AW962395, AV720607, D80522, D51250, F13647, AV742022, D80168, AV699866, AV700622, AV352158, AA514188, AV719000, AV681529, AV681468, D80949, AC003982, AR070327, A84916, AX027925, AJ132110, A62300, A62298, AX033851, AX047063, AX047064, AR018138, AX021518, X67155, Y17188, D26022, AX035434, A25909, A67220, AF058696, AX020191, D89785, A78862, D34614, AJ302649, AX020190, AB028859, AX047062, AR008278, AR077702, D88547, AR092424, AX028130, AR087649, X82626, AR025207, Y12724, AJ294956, AF260572, A82595, AB012117, AR060385, AB002449, AR074545, AX015396, A94995, X68127, AR016808, AR008443, AJ287395, A85396, AR074141, AR066482, A44171, AR088705, AX042372, A85477, I19525, A86792, I50126, I50132, I50128, I50133, X93549, AR066488, AR016514, AR060138, A45456, A26615, AR052274, I14842, AR074139, AR066490, Y09669, A43192, A43190, AR038669, AR066487, AR074136, A30438, I18367, D88507, AR054175, D50010, Y17187, A63261, AF135125, AR008277, AR008281, AR008408, AR091537, AR062872, A70867, AR093385, AX035429, AX035428, AX035426, AR016691, AR016690, U46128, D13509, I79511, A64136, A68321, AR060133, AB033111, U87247, AR087528, AR064240, AB037923, AX014811, U79457, AF123263, AR032065, X72378, X93535, and AR008382.
HODEL83	383	100832 4	1 - 520	15 - 534	AL138813, and AC004915.
HHP SH76	384	100832 5	1 - 1578	15 - 1592	AJ971626, BF940710, AI870763, BF447174, BE676274, AI582352, AI431882, AI161166, AI971645, AV693733, BF000296, BF594148, AI222731, AA937784, AI299178, AI394300, AI439546, AI362722, AI345977, AW072003, AW028669, AA632194, AW205947, BF057452, AW206327, AA972757, AA587064, BE712791, N90856, AI350107, AI298077, BF058455, AW134661, AA825270, N90867, AW028686, AW079385, AI147124, AA460705, BE551298, BF736655, AA746018, BF732395, W16558, AW007772, W16555, AI161086, AI149235, AW340546, AW204428, AI161084, AA988853, AI762633, AA904256, BE715859, AI368507, AI025216, AW137922, AA808302, AA808603, BE715826, BE670470, H86812, AA639423, H86876, AI700294, AA887551, BF063604, T55756, BE671028, AA853813, BF115406, AW300426, AA858288, AA878930, BF590909, AA853812, AA639424, BF967749, AC006230,

HBGBE52	385	100832 6	1 - 769	15 - 783	AF019386, AF019385, AF177430, and AJ388534. BE002704, BE065136, AW152446, AV734696, T62861, AA584449, AW370854, AW295305, AI539492, AI093863, T62711, AA663693, AA808792, AW371354, BE138955, AI343194, AI251970, M18740, M25718, and U13369.
HBQAB30	386	100832 7	1 - 779	15 - 793	AU121386, BG024628, AL523997, BF794753, AU137819, BG177391, BG176653, BG259088, BG106999, BG107310, BE265326, BF305474, BF347603, BF796967, BE018909, BE018889, BF797739, BE167696, BF981741, AL039474, BF350360, BE244700, BF869380, AA651690, BF183251, BE778225, BE740869, BE271603, AW474216, D58450, AU124160, AW361236, AW466946, BG107057, BF772633, W27829, AU076945, W26115, BF759430, AW664187, AA570434, BF675704, L12579, M74099, U68542, L43505, AB041595, AC005103, AF047825, AC005086, AF004225, X75013, AC006457, AC002978, and U25750.
HLHCB31	387	100833 2	1 - 2032	15 - 2046	BG250587, AV734294, AW949920, AU125757, BF529108, AW952796, AA443300, BE673024, AI335961, AA738061, AA443433, BE938159, AW513187, AI860346, AW009354, BE294816, AU149357, AW058419, BE042809, BG150358, W40461, N95557, AA418263, AA418366, AI183756, BF983116, N52313, AA620306, AA884462, AI001006, D63258, BE274198, AI400765, N93959, BF886486, AW262034, AW183978, BF765839, AU138365, BE870250, AW183285, N75083, AA377749, AW235381, AI280350, R49967, AI393230, AA249125, BF509213, BF886848, BF887480, AI658872, AI869768, R88859, BF223596, R47440, R47819, BE296217, BF755474, BE707786, AA448501, W24950, AI701222, BF912737, BF757860, H21363, C18194, BF515599, BE168666, N87076, AA339171, D30872, AA091617, AA704660, BF692008, AW138128, A46722, D85510, D86331, E16655, and AF144759.
HPFDV51	388	100833 5	1 - 917	15 - 931	BF508974, AW965115, AI630839, AI741643, AW072035, AW268897, AV723999, D62666, AW072761, AI016072, BF512461, AA344181, C16744, D62943, BF437674, AA344606, AA905880, D62570, AW965114, W60522, F05944, AI915081, AA307598, AV754716, AL042630, AA689351, BF448904, AA429481, AW392414, AI124706, BF883138, AA603400, AW732205, BF769787, AA610381, AI137946, AI471455, AA550959, AW502873, F36200, BF766147, AA132912, AV728369, AI687343, BF742657, H86221, N91711, AI624379, AI282629, AA642809, AV764406, AA828153, AA946848, AA084230, AA578832, T93109, AA228778, AA524800, AI356440, BE868437, AW949694, BG026818, BG026893, C14480, AA508036, AI754037, AA525293, AI568659, AA610826, AI185394, AV743799, AA362349, AI918419, AV734149, AA678950, AI135761, W39287, AU150583, AA654778, T05354, AA385775, AA484892, AA935291, AA468923, BF737749, AA828442, BF853968, AI537800, AJ049701, T06828, AW515219, AA666215, AV729669, BE676915, AA483731, AW511778, AA525331, AV764259, AA728861, F26072, AA445951, AW850230, BF913900, AA483034, AW151247, BE143664, AA533054, AV979295, AA371410, N71619, AA483483, AA832016, AA831801, AV762430, AI246996, AA364082, AA598663, AW468349, AA805960,

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HTEDY04	389	100833 6	1 - 1291	15 - 1305	AC021752, AC005342, AC006561, AC011469, AC007639, AL0222240, U78027, AC005741, Z81314, AC006146, AL391839, U48471, AC005081, AL136369, AC005911, and AC004968. AI927477, BE670723, AI948965, BE466314, AA987287, AI095479, AW957242, AI199425, AI128097, AA448092, AW972332, BF434529, AA447554, BE045361, AI369302, AI361389, AI923806, AA435678, AW972328, AI660309, AI080255, AA054012, N70603, AA837761, AA448073, AW339432, N55490, AA393640, AI863621, W04922, AA447593, N69823, BF361414, N76977, AA057377, AI216708, AA448537, AW243130, AA036760, BE084121, AI675513, AI350467, AW016860, AI265822, H22783, AA508054, RI4614, AA383086, BF361412, H80683, T64743, AA379733, AI038561, AA370797, H41174, AA370796, H80646, AA746313, BE791070, BG012707, AI268695, AF006386, and AL034379.
HODEG13	390	100833 7	1 - 516	15 - 530	AA861406, BE160342, AA654837, BF814002, AW877546, AA244041, AW157413, AU143973, BE061421, Z93403, Z92545, AC005326, AC004552, AL360078, AL021406, AL049781, AL136442, AP000515, AL133500, AC006313, AL355272, AL121776, AC005993, AL117340, AL109800, AK021450, AL109853, AC008873, AP001724, AC087085, Z93928, AC016623, AJ229041, AL133514, AC004388, AL049646, AL136981, AL157931, AF036938, AL121997, AL008629, AC007068, Z73986, AC010198, AL353573, AL121950, AC009241, AC004949, AL008639, AC006461, AC005538, AL096867, AC006157, AL354685, AL136133, AL023883, AL033375, AL360157, AC009430, AC005018, AC003670, AC026398, AL160237, AL158141, AL137118, AC006257, AC008127, AC008083, AC008279, AC009308, AL135960, AJ131016, AC007282, AC004554, AL035423, AC004055, AC004911, AL391684, AL035454, AL121841, Z85987, AL158064, AC016607, AC004982, AC020603, AL391666, AL163280, AL391644, AC073572, AC011890, AL359641, AL353582, AL031054, AF002223, AC022274, AL033521, AL132773, AC004052, AC008818, and AC073325.
HHFPK16	391	100834 5	1 - 461	15 - 475	AA306966, AV650072, AV650129, AV651901, AW248211, BE251055, BG257405, BG142261, BF796726, BE252748, BF970072, BE253394, AA587676, AV727695, BE566483, BF979560, N31759, AV689371, BF979663, BF530154, AA379229, AW963917, W32392, BF185241, BE618517, AL523961, BF681293, AV750140, BE748280, AI092258, BE783649, AA281646, BE164637, BE781790, AA523844, AA333474, AL524527, AI733910, H00017, R47258, BE972575, R47244, AA375463, AW304314, AW801668, AL524526, H00071, BF988262, BF683074, BF182646, AA664453, BE842637, BF185407, AI419252, BE388376, AI698340, BE857220, BE673426, AA367629, N80921, AA026486, BE551157, C02600, BE743952, BF694306, AC011477, AC007204, M61870, AC010329, M61866, AC011482, AC008554, AC010636, AF070651, AC008739, U35376, AC024563, AC073539, AF038951, AC003973, M61873, AC078899, AB040906, AC006539, AC008463, AC011494, U37092, AF242519, and U37098.
HARAL81	392	100834 9	1 - 809	15 - 823	AA777763, AI888037, AW954039, AI499427, AI569758, AA573906, AW305026, BF060656, AW778946, BE466396, AW511528, AW069026, AW953867, AW516094, AA526290,

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HFTAU42	393	100835 0	1 - 1705	15 - 1719		FI1519, F09180, AW275719, T39173, BE146711, AI064864, AL041706, BG059523, AW958945, AI090377, BE146744, AI446464, AW327624, R23873, BF918590, AA456937, AA831426, AW575605, AV755070, AA838140, AI811460, AU152317, AV762050, AA857486, AV760466, AC005004, AL080243, AL096701, AL135798, AC005730, AL353804, AC008733, AC002449, AC012155, AC005288, AP001717, AL021407, AC008928, AC004552, AP000045, AC007279, AL121899, Z83822, AC005324, AC008277, AC012442, AP000113, AP000300, AC010269, AC004890, AC004955, AC010609, AC009311, AC084732, Z85999, AC003065, AL050348, AC004856, AC006345, AC013734, AL121578, AL023283, AL078601, AC007546, Z84719, AP000359, AL136984, AL121886, AC011442, AF207550, AL157384, AC007365, Z84469, AL133453, AL163248, AL158830, U63630, AC006077, AC004762, AL035427, AC010289, AL035681, AC006285, AL157878, AC007850, AP001346, AC009179, AC011479, AL136094, AL034379, AC004987, AL357519, AL121905, AP000556, AL031228, AC022078, AC007956, AL049795, AC005102, AC002395, AL353701, AC016025, AC005081, AL034429, Z68226, AL138836, AL133163, AC008134, AP000255, AL022476, AC004963, Z69705, AK024182, AL450224, AC073148, AC009116, AL109804, AC007679, AP001670, AP000555, AL133174, AC004754, AL121928, AC023490, AC025593, AC007845, AL450226, AP000557, AJ400877, AC008102, AF165926, AC006141, AP000135, AC005539, AP000031, AP001666, AF134726, AL137039, AC005037, AL021391, AC018719, AL136980, AC007954, AC004859, AC020906, AL049758, AC008770, AC058791, AC006120, AC073898, AC006064, AC006483, AF001552, AP000502, AC006561, AL136300, AF045555, AP001712, AL035249, AC005522, AJ295844, AC006994, AC007686, AC006273, AC006557, AC005599, AP000105, AP001714, AC003663, and AC005971.
HETDA81	394	100835 8	1 - 363	15 - 377		AA164850, AI347829, AA164851, AI539038, W87820, T91042, AW103512, AI208103, AI538025, AW959576, BF513984, AI886882, AI827139, AW571976, BE565889, AI557283, AI565180, AI673742, AA827331, AA164745, AW665930, AI862333, BE971469, T83877, AI590154, AW966053, AW975618, AW959628, AW966531, AW978634, AW966534, C14331,

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HODE192	395	100835 9	1 - 1064	15 - 1078		AW970780, AA292507, AA131133, AW009250, W93698, AA443637, BE326280, AA815396, AA524536, AI131316, AA716422, AW167811, AI989794, AI204695, AI206303, AA235322, AW102822, AA195671, AW104260, AI686439, W93749, AA131081, AA195672, AW367192, AI254818, AW352181, AI611923, AW367188, H48933, AX016191, AX016189, AF088074, AF190501, and AX016183.
HODEB58	396	100837 2	1 - 459	15 - 473		AL157628, AU123801, AW502001, AA247157, AW996782, AW996780, and D86985.
HODEG86	397	100837 9	1 - 634	15 - 648		AC008750.
HODFA57	398	100839 6	1 - 627	15 - 641		AL034561.
HODFB31	399	100840 1	1 - 606	15 - 620		BG036348, AV688303, BF243944, AU125772, BF967928, AL355112, and AK022722.
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HOFMU69	405	100901 7	1 - 1428	15 - 1442	AV684729, AW028063, BF966613, BF183036, BF513083, BE856253, AV725683, BF967767, BF476032, AA037314, AW025205, AW118083, AV654724, AI533845, BF739803, BE874632, AV721664, BG032797, BE835358, BF107095, BE835421, AI936938, AW629496, BF112039, AI627928, BG036935, AI283403, BF978144, BF240167, AW469390, AI805469, AI027476, AA926654, AI818906, BF977973, AI421269, AI291304, BF081332, AW074838, N57371, AW001973, BF515401, BF370065, AA970745, AA102090, AA463457, AA923662, AI309195, AA568740, AA972072, AI276170, AI718178, BG058506, AI384119, AW182398, AI002643, AI277271, AA937950, AA905140, AI290395, AI304767, AA731671, AA934048, AA311659, AA610079, AA907546, AI694431, AA854770, AA905147, AA056233, AA804207, T87107, N31503, AI358287, AA055922, AI221597, AI041581, AI204193, AI806731, AI554900, AI268390, AV654948, D62387, AA099343, AA258407, AI809900, AA988126, AA872540, AA890504, CI5485, AL119457, AL119399, D62335, AL042382, AL042544, AL079794, AW877209, BG164558, AL079741, BF925729, BG168696, AL119511, BG032704, AV681630, AV682252, AI627988, BG166654, AW149925, AW983783, BF970449, AW161156, BF814527, AI269862, AI537677, AI340603, AV734329, AL119863, BG029667, BF970990, AI796743, AI536685, AL514129, BE964614, AL037081, AW983829, BE047852, BG260287, AW051258, AV753074, BF814420, AW029611, AI564719, AI500061, AI537244, AI677796, AL040241, BE885353, AI698391, AL514879, AL120853, AW169671, AW051088, AI475371, AI926790, AI591420, AI889376, AI932794, AW983703, AI524671, BG260037, AW983691, AI611738, AI619502, AI632408, AI802542, AI889189, AI288305, AW118518, AI270183, AI570807, AI635492, AW026882, AI635067, AW050522, AI923370, AI281772, BF812960, BF812938, BF970652, AI921248, AV650703, BF827575, AI620089, AA449768, AI433157, AI702073, AI933589, BF812961, BG109270, BF107577, AI478123, AL037104, AI633125, AI915291, BG031815, AI582932, AV757737, AI890833, AI468872, AI521560, W74529, AL037454, BE045182, BF885081, BF904265, BG179993, BG257535, BF970768, AI917252, BG110517, BF987104, BG168646, AI797908, AI521012, AW117746, AV743962, AI274508,

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HSKNP59	406	100909 5	1 - 960	15 - 974	BE799721, AA480375, BE719132, BE719128, BF841831, AI251419, AI270846, AI308612, AI270979, AA953100, AI340555, AI250202, BE041953, AI309146, BE043759, BE043282, AV706824, AW023232, AW020543, AV702772, AV701946, AV726010, AV696790, AV702021, AV726088, AV728872, AV727510, AW960655, AV709232, AV726026, AV705981, AV709101, AV702790, AW963750, AV705433, AV702728, AV705873,

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HETBR71	407	100934 3	1 - 1221	15 - 1235	<p>AW006970, BE879571, AW024469, AV721459, BE540489, BE336364, BF965299, BE881422, BF664939, BE542653, BF516238, BF681569, AA526371, AA526389, AA526389, BF106316, AI799491, AI498256, AI097048, AA708799, AA043221, AI738993, AW161297, AA451969, AI004196, AA530865, AI355638, AI215599, AA043222, BF446574, AI536604, N50826, AA452260, AA833821, AI695010, AW157800, AA526474, N48253, AI889875, AV263944, AA040895, AA478480, AV682170, AI569738, AI269131, AA993786, BE817977, AA042971,</p>



HE2ES17	408	100934 9	1 - 1483	15 - 1497	<p>AI796908, AA042903, AA902540, AA045373, AW663109, AA983152, AA526492, AI708146, AA625776, R82583, R23201, AA046559, AI961811, BG112634, D55818, AI928322, AA452433, AA985418, AA354943, AA382564, R82523, T28227, AA916195, N81192, T51545, BF680901, N22292, AW380569, AA040894, BE042443, BG105056, AW889077, BF807114, AA935289, AL049610, AF095906, and M99701.</p> <p>BG111492, AW439786, AW073883, AV719548, AV706176, BF132037, AU143895, BF671635, AU152574, AI925143, AI018024, AA460521, AU152977, BF593938, AI277889, N35236, AI911015, AV720311, AV720287, AV720565, AV719404, H99645, AA983864, AI539561, AA781828, AI140736, AW474242, AI539533, AI084377, AI367955, N44901, AA860474, AW510585, AI051782, T80249, AI276390, AA460520, AU116935, AA682234, N66333, N66141, AA214431, N98663, BE244676, R38792, AK000874, AF078932, Y10495, Y10496, AF203441, AF203437, and AC007546.</p> <p>AW327723, AW674864, AL516842, BE882980, AL532515, BE799552, BE896851, BF984921, BE396422, BF826008, BE799625, BF826769, BF218169, AU077063, AV687313, L14076, and AC004236.</p>
HELHM06	409	100936 2	1 - 336	15 - 350	<p>AI453045, AL528826, AA856613, AI912949, AI739056, BF966732, AJ986110, AL519448, AW613375, AI379787, BG032945, AW962214, AI914227, AA582587, BF590115, BF514600, BF680870, AI587526, AI867178, AA505399, AA683551, BF431318, AI078274, AI928459, AU144502, AA766846, AA815041, AI281397, BG170712, AA232560, AW051473.</p> <p>AA523261, BF576501, BF108639, BE242521, AW951858, AI354235, AL039035, BF572328, AI301459, AA126940, AA326462, N70794, AI281454, AA651932, BF574933, AI826813, AA278487, AI349091, AA197245, BF672052, AI700825, BF694355, BF668070, BE247045, BF673072, H43036, AV659423, BF671763, W67786, AI370310, AW631375, W67845, BF966298, AL047459, BF574129, F03536, AI301406, AI630671, BF693378, AA367445, T28398, BG057778, BF790818, BF574845, BF571244, AI525002, AI825974, BE174789, Z20344, BF575895, C15076, D80522, D59467, D59787, D80164, AV701004, AW975618, AV699866, AI569419, AW964532, C14331, AV718530, D81030, D59627, AV738340, D80366, D80258, AV700159, AW966330, AW753053, D81026, AW973541, AV699550, AV718489, AW377671, AW964468, D80064, AI557751, AV718692, AV718681, D50979, AW973445, AW966029, AW959628, AW958993, AV724520, AV701422, AV720035, D80043, AW959799, D80133, AW960465, AW960553, D80248, AV720878, AW966531, AW978634, AV741191, AW966053, AW973334, AW958992, AW965163, AV720533, AV719783, C14389, AV720464, AW966059, AV720791, AV718440, AV720028, D58283, AW966022, AW966041, D59927, D59859, AW949632, D80022, AW973485, D59275, AW949641, AW965177, D59502, D80391, AW965158, D80253, AW966030, AW964756, AW966043, AV742996, AW9660473, AW959469, D80132, AW965196, AW965184, AW966534, AW966075, AV718844, AW966065, AW973482, AW966054, AW975621, AW962082, D51423, AV719822, D80196,</p>
HE2AG50	410	100936 5	1 - 1794	15 - 1808	

						D80269, D80188, AW978661, AV744012, AW960532, AV741187, AV741198, AW973307, D80251, AW966013, AW973490, AW973488, D80166, AW973474, AV699447, D80195, AW978648, AW964488, D57483, AW949633, AW975613, D59619, D51022, AW964737, D80210, D51799, D80240, AV744662, AV720203, AW966050, AV719188, D80227, AW966062, AV719324, AV718938, AW959597, AV718633, AW975605, AW959570, AV719468, AV718800, AW965185, AW965197, AV718707, AW965175, AV720211, AV718931, AV719557, AV718770, AV720731, AW973473, AV722801, AV723927, AW959136, AW959062, AW964477, AW956434, AW949656, AW949654, AV699927, AW949642, AW959202, AW973330, AW966400, D80212, AW949645, D80219, AW960454, M91432, M16827, AF251043, A74372, A62300, A62298, AX033851, AX047063, A84916, AR018138, AF058696, Y17188, AX047064, AR087649, AJ132110, AR070327, AJ302649, A25909, AX027925, AR008278, AB028859, A82595, AX047062, AX021518, X68127, D26022, AX035434, X82626, AX028130, Y12724, X67155, AX020191, A67220, D89785, A78862, D34614, AX020190, A30438, D88547, A94995, AR008443, AR060385, AB002449, Y17187, AR025207, I50126, I50132, I50128, I50133, AR008277, AR008281, AR066488, AR016514, AR088705, AR060138, A45456, A26615, AR052274, AF260572, AR074139, AJ287395, Y09669, A43192, A43190, AR038669, AR054175, AR066487, AR074136, U46128, AR016691, AR016690, AR074545, AB012117, I14842, I18367, D50010, A63261, A85396, AR074141, D88507, AR066482, A44171, AR008408, AR091537, A85477, I19525, A86792, A70867, AR062872, AR093385, X93549, AX042372, I79511, D13509, A64136, A68321, and AR060133.
HE2ES61	411	100938 8	1 - 1258	15 - 1272		AF075305, AW439817, AW439844, AI493164, AA203275, BF690753, AA533476, N31463, AI435348, AA838687, AI334356, AI282866, AI823812, AV719236, AA507026, AW138875, AW236781, AW996877, BF445452, BE673101, AA035519, AW118716, AA219612, AW194890, AA737528, AA453621, AC005034, and AB026911.
HE2SO43	412	100939 8	1 - 1107	15 - 1121		BF345442, BE745400, BF002361, BF591185, AW006311, AI740645, AW972577, AW190738, AW872945, BF590839, AW515791, AI337338, AI623327, AI160758, BG055059, AI146399, AI955183, AW130008, AI380399, AI375011, BG222460, AI539558, AI217110, AI371688, AW615545, AI360696, AW004738, AA885332, AA506508, AI264485, AI356161, AA280731, AW873997, AI479723, AI471972, AI077764, AI356162, AI472175, AA557465, AW007779, BE463808, H29892, AI240814, AI521518, AI356160, BE827863, BF215793, AI419525, AW248081, T23536, AI424657, H17888, BF434314, AA877639, R96881, BF000404, AI934283, BF510867, BF588477, R96880, H19299, T88997, R72799, AI370746, BF806860, D45762, AC006547, AC000083, AC000097, AK025106, X56044, AC003060, and AC012526.
HLHC107	413	100940 3	1 - 517	15 - 531		W31456, W52407, AC005410, AC020744, AL445249, AL132821, AL035652, and AC016925.
HTTBR65	414	100941	1 - 461	15 - 475		BE314959, AW411287, AW411286, BF304101, BF976822, AW411455, BF344411, BF339991,

HPFCV71	415	4	100945 3	1 - 661	15 - 675	BF571534, AW367868, BF809505, W93139, AA010506, AF095890, D12765, E06025, U35622, U18018, and E06024. AW028647, R31337, BF892076, BF892569, AW816131, BF988799, BF993589, BF990226, AA22815, BF773356, AV732057, BF992718, AV730440, AA565911, BE464585, AW301855, AI281622, AA523719, R68706, AA640823, AW023376, R31595, AW835334, AA728954, BF992721, AA362440, BF992720, AA640563, AU147781, AA935827, AI318304, HI6875, AW968193, AW850985, AW162314, BF821112, AW162332, BF849123, BE974024, AI268491, BF917144, AA985194, AW407007, AI909640, AA833828, AW953071, BG255923, AI625175, AW572713, AI345146, T47429, AA015948, AI12864, AU146575, BE880448, AW080772, AW157173, AA878955, AW973825, BE246411, BG260565, AA932787, AL537432, BE706737, AL537956, AV720475, F23268, BE312650, AW962187, AA984920, AF178081, AC006077, AC010519, AC007619, AC005730, AF023268, AC008745, AC003693, AC016027, AC004797, AC016830, AL163279, AP000031, AF121781, L78810, AC008635, U89336, AL080243, AL022315, AJ006345, AC034186, AC010091, AC022404, AC026161, AC004973, AC083863, AC005484, AC005049, AL021807, AC005519, AC005759, AL031848, AC007899, AL162424, AC022150, AC006006, Z83844, AL162505, Z97056, AP001714, AL031281, AC010463, AC005057, Z49155, AP001629, AL121928, AC005763, AL133458, AP000556, AL136137, AP000552, AC000353, AC010422, AC023490, AC005668, AC006345, AL136179, AC004448, AC009194, AC005412, AL031588, AJ009615, U85195, AL078460, AL135787, AE000658, AC005822, AL139342, AL035071, AL008582, AC005058, AL122001, AC018644, AL009179, AC007384, AC004634, AL031767, Z93015, AL049838, AC019210, AC011475, AP001748, AC005288, Z98036, AP000558, AL109797, Z84477, AL121653, AL049872, AF205592, AC000134, AC073898, AC006057, AC005620, AC010311, AL035658, AL133240, AC008276, AC011480, AP000557, AC006285, AC005231, AL033378, AC005066, AC010458, AC011811, AC022148, AC005516, AC005844, AL022165, AL109935, AL353748, AL117258, AC005940, AL133353, AL391259, AC010527, AC004254, AF205588, AL158040, AF146367, AP000131, AP000209, AP000248, Z99716, AL035417, AC004087, AC004552, AC008733, AC010618, AC007969, AC011493, AC007386, AL023575, AF088219, AC005911, AL136120, AC004234, AC005043, AC004890, AC026776, AC005829, AC006337, AL117381, AF134726, AC004638, AL133227, AC011465, AC007956, AC007226, AC011500, AL035495, AC018751, AC009516, AC005913, AL022238, Z74739, AF165142, AC008543, AC006023, AJ277546, AC004024, AL031228, AL135844, AL161672, AC002107, AP000228, AP000140, AC005052, AP000088, AP001694, AL033529, AF111169, AL136418, AC012309, AL121586, AC004915, AL079342, AL136172, Y18000, AP000703, AC004991, AF196969, AC005695, AL138960, and AL122014.
HCABR46	416	100947 9		1 - 869	15 - 883	AW131143, BF343353, AW166982, AI922723, AA769108, AW084960, AI076939, AW189314, AI971285, AW190185, AV701548, AW103994, AI885578, AW167989, AI859425,

AW273318, BE858229, AW103531, AI687025, AI815064, AW872740, AI887599, AW473089,  
 BF793300, AI634376, AA613656, AW085668, BE208322, AI284232, AW272535, AI580226,  
 AW674771, AI758714, AW873017, AW102937, BG060158, AW130895, BE513212,  
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HAOSI69	423	100994 9	1 - 4383	15 - 4397	<p>AW302927, AW302964, AW303015, AW303021, AW303147, AW303179, AW303194, AW303225, AW303237, AW303239, AW303252, AW304642, and AW304667.</p> <p>AL518153, AL514204, BF690166, AL518152, AL514232, AU119073, AI347077, AU141798, BF732782, BE733859, AI186525, AI087288, BF310427, BF690424, BG036070, BE314678, BF982297, BE408935, BF034889, BF026282, BG113234, BE735456, BG249149, BG254771, BE261734, BG164248, BE384352, BG108338, BG166752, BG164026, BG104433, AI912334, BE410400, AI824103, BE382880, BE909819, BG164480, BG180537, BE390020, BE882944, AU123945, BG260903, BG122650, BE797705, AW080962, AA425549, BE408324, BF984892, AI814595, AI953979, AI453532, AI382164, BE396090, AI073747, BF337213, BE539444, BE047090, AL521610, BE273543, BG168476, BG253147, W67603, AI624162, BE899510, BF315611, BG254192, AA425389, BE409154, BG025942, AI689037, BF800051, AI288304, AI081104, AA599485, BE613371, BF689940, BE617351, AA148042, AI276505, AA577596, BE274186, AA516104, AA948080, BG165628, BG167809, AW169156, AU159265, BF061548, W67604, AI333594, AI366087, AW771113, AI351505, AI499061, AA908347, N26056, AA642944, AI023701, AL521609, BE895819, BG027950, AA160603, BE407745, AA403248, AL514203, AI284911, AA563710, BE390287, BE881555, AA487700, W46412, AI755078, AI289794, AA402387, AW770816, BE093356, AI753397, AW771076, H98049, BG153386, AI311390, BE873437, AI660881, BF984639, AI741468, BE893074, BE892029, W44436, BF088795, AI700678, AA148043, BE537043, AW292848, AI073353, BF088796, AI366117, BG112974, AI272818, AL135581, AA100801, BG167152, AA631077, AI085348, BF109995, BG111388, BE091204, BE164704, H99284, AI055890, N32676, AI633564, AI740837, AA613344, W92651, BF750470, AI278890, BF769504, AW503909, AI123599, AA226806, AI273471, AI298125, AI571777, AA403090, BF207039, AI095335, AA100854, AA102307, AI344561, BF082578, AI924926, N42086, W95203, AA029402, BF741015, AI146884, AI921518, BE167894, AI190622, W46300, AA100676, AA983722, AW954336, AI346589, N40420, BE612645, AI066484, AW369618, AA994114, W44495, AI752230, AA699584, BE18794, AA909844, AW514883, AA113245, AA133137, BE075271, BE075108, BF763944, AA525859, BE718798, AI752231, BF998505, BE718788, BE718805, AW298822, BE718809, BE541980, W48631, BE276181, AI079968, H20622, BE718795, BE772730, N27141, BF838848, BF762434, BF762460, AA151696, AI873252, BE080779, AI274886, AA113772, BF762443, AW263140, AI568929, N75459, BF798824, BE772750, BF689500, BE772733, BE772741, AA535600, AW264602, AW275281, BE292624, AI339890, AI168364, BE081115, AA126942, BE080727, AA453606, AA064623, AI620604, H66084, AI271377, BF750338, AA076431, AW131206, AR028135, I23762, Z23022, I96214, AR034830, M74092, AR043601, AR043602, AR043603, X75207, S78355, M64403, D14014, U40844, L09054, Z29078, I23763, AR034840, U00682, AF212040, S71637, AF182716, AF067056, AF148946, X66970, AR034527, AC004093, AC005743, AF029728, AF267747, AC004686, AC018767, AC068808,</p>
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HSDZM65	425	101029 9	1 - 1348	15 - 1362	A1944321, A19194980, A19162622, A19161811, BE695903, A19960568, BF589126, A19701104, A19154426, BE045555, BF033598, A19853100, BF9711574, BF814791, A1970794, A1934386,

	426	101040 0	1 - 1107	15 - 1121	<p>AW593616, AW103951, A1041491, AA242841, A1625865, A1434874, AA401314, A1566521, A1290621, AV749577, AW971727, AA401315, BF476557, AA758230, A1189006, A1817795, A1299825, A1990246, A1400410, AA836980, A1926242, AA400271, N40047, A1203327, AA905174, N21388, N27113, AA136709, AA377492, BF970685, BF197098, A1685731, AW995523, BG255683, BF154433, BF815971, N26455, AA714986, AA469449, BF814570, H99346, L44440, BF814320, AW339852, BF815976, BF817808, BF815188, BF814315, BE788737, BF967003, AA635589, BF816840, BF815182, A1434558, BF817686, BF815658, F01166, R52284, AA781063, BF816868, AA830536, A1982710, AW518858, A1687944, AW771192, AA614183, N52724, BF680375, AV757813, A1208492, BE568290, A276289, AW995466, A1686601, AA854353, A1636039, BF081570, AW770845, N31343, AA136807, AA467778, N68998, A1699561, BF222527, AV751433, AA525819, BF221739, AA317135, A1869288, AA523694, BE328340, BF109122, AA304659, BF238326, AA294835, AW015496, A1811007, AW295210, BF211839, A1743045, AW664342, AW418500, BF669202, BF345830, BF669114, BE768108, BE768037, BE768028, BF831299, BE536835, R38111, BF815223, AB037768, A1136504, AK001684, AJ010953, AF181120, AF189723, M93017, AF230532, AF225981, M93018, and AF181121.</p> <p>AL518597, AL521465, AL521860, AU142321, AL519163, BE791154, AV710439, AU137468, BG108541, BE875817, BE908178, BE794167, BE616810, BE797530, BG177616, BF791974, BE563172, BF203748, BG122611, BF983927, AU138928, BF304118, AU136676, BG256808, BG166547, BE908232, BE900747, BF981499, BE259007, BF984319, BF982660, BF203883, BE889058, BG121889, BE409876, BG028149, BE886412, AU135659, BE409111, BE777856, BE396964, BE891193, BE737086, BG252022, AW608289, BG115304, BF303724, BE888387, AW392529, BE562432, BE258634, BE889878, BE269473, A1174700, BF794665, AU134289, BG254012, BE254220, BE252060, BF215570, BF691292, BE295498, BE297846, BE409000, BE259383, BE259293, BG106782, BE780774, BF792473, BE539784, BE269036, BF699793, BE936340, AW978187, BF984873, BE089821, AW392532, BE409484, BE884858, BE872222, BF983743, BF983915, AL044183, BE268220, N28894, BF087516, AA488136, BF800736, BF027913, AA143588, AU139273, A1815968, AW405832, BF674380, H11682, N42210, BF336934, W31775, N56608, N40261, BF810364, BG171478, AA805505, AA101513, AA101590, BF203625, AA085473, A1080684, AA338102, H85230, AW235051, AA552394, AA354823, BE645922, A1375591, AA356478, AA189014, AW392524, AA425206, BF083740, BE782032, H73591, AA159876, BG164729, H73817, AA373687, AA912092, BE083129, BF894997, AA356309, AW892368, AW582387, BF758870, R84501, D60569, W25687, T24902, H49162, A1565353, AW835598, T89376, BG011455, A1128815, BE698610, AA813807, AW582390, AA295075, W04674, N29653, BG117269, AA975223, AW381345, R58308, AL521859, A1445105, BE999943, R85283, AL521464, AL519162, BE813178, T80058, AW837148, AF130113, AB009282, AR052337, AC009032, Y12517, and X96392.</p>
HPDOC39	426	101040 0	1 - 1107	15 - 1121	

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HTTKH22	428	101059 6	1 - 1790	15 - 1804	BG258097, BE565269, AW970826, BE972364, AW104509, AI935735, AA428565, AA948090, AI149846, AA564462, BE972491, BF241442, BE144496, AA429521, AA741348, AI357926, AW296387, BG150242, AA412328, AI589867, AW205827, AI916262, TI5665, AW090362, AI933368, R12639, BF360955, R20539, AI480273, AI698477, BF083192, BF083189, BF083190, BF229315, BF743777, BF083194, BE972369, AA825483, BE767465, AW371194, BE543997, BE768945, BF229316, AB046777, and AC009464.
HNOJG33	429	101069 8	1 - 1694	15 - 1708	AL514076, AU136058, BE871934, BF037005, BE734065, BG121727, BF340061, BE300394, BF203968, BF204799, BE300047, BE538261, AV761233, AW409777, BF805377, AW409668, BF205527, BF816400, BF679197, AV724965, BF206008, BE467989, BF445887, AI903791, AI500392, T64826, AA860771, BG152814, AI382895, AI903792, AW373027, F12113,

HPDVK48	430	101109 0	1 - 1811	15 - 1825	<p>AI740878, H84580, AI369972, H38748, T97648, AA248719, BE537116, BE711210, BF817487, AL514075, R10203, T97682, AA316821, BF003096, AA339588, AW005868, N42355, H24794, AA364975, AU076536, AV742658, BF155770, BF081246, AA772366, BE677850, W96073, AA095922, AA091703, BF307175, AA324375, U01160, AC000028, U81031, S78432, and AJ388529.</p> <p>AI817702, BE734213, BG109696, BF343215, BG031900, BE902597, BF027605, BF027576, BE89930, BE591342, BE732160, BE384437, AI870638, AI816966, BF974651, BE732127, AW082941, AI955901, AI588852, T51227, T51341, BE732330, BE733010, BE799315, AA688018, BF827100, AB029041, D43921, D88508, and D88505.</p>
HNORJ10	431	101118 6	1 - 2847	15 - 2861	<p>AI134078, AI19820, AU133300, AU126958, AU130520, AU133937, AV702394, BE877191, BE881502, BE877741, BG108056, AU110900, AU128582, BE782436, BE894349, AU133707, AI755105, AU116910, BG258563, BE788956, AV683379, BG118247, BE778857, AV702635, AU137107, BF965897, BG176784, BF976801, BE884018, AW239292, AI081900, BF978507, AW952777, BE875732, BG027117, BE877650, AI755063, BE878670, AV751366, AW949916, AI814464, BF678160, BG108194, BF571686, AW467192, AU154668, BE555701, AW392400, AA429941, AU146064, AW410667, AU155188, AW410666, AW994720, AW952816, AW129607, AI983856, AU143874, AU157027, AI922802, BG112073, AU153845, AU149778, AU152436, BE778846, AU150846, C06050, BG118808, AU153441, BF211683, AI204482, BF210654, BF217005, AW304738, AA887584, BF240843, BF678567, BF692112, BF571072, AA760671, BF923330, BG250728, BG119747, AA937180, AA504114, AW630580, BF696849, AW130041, AW055333, AU145515, C75335, AW237574, BE565110, AU130502, AI559451, BF572471, BG108209, AW080347, BE176786, BF340233, BF345008, BE737877, BE179704, AA410905, BF699275, AI042306, BF691962, AI752907, AI192876, AI924084, BF349490, BF246432, AA594633, BF794025, AI754970, N66338, AI342267, AA628679, AW674966, AW272202, AI673480, AW835336, AU156216, BE696419, AA171565, AW079029, BE696416, BF982798, AI921994, BF699321, BE696412, AW440948, AA664266, AI572874, D83902, AI754356, AI569623, AI625058, AW468158, BE539716, C75346, BE696421, AI541217, AA244037, D56430, AW794837, BE464416, AU149708, AA613984, AI520695, AA789181, AI818726, AA653377, BE738338, AW835340, AA156339, D53682, AW860422, AW800395, BF691025, AA598526, BE178042, AA904195, AW768275, AA204639, AW674968, AL121041, AA152250, BF919693, BE925260, AA367404, AW615031, BG260753, AA848082, W47003, AW862545, R71408, BE696408, AW860808, T32121, AA627976, BF690899, BF917679, BE937469, AA446236, D81210, AI721007, AW860804, D81637, AA659654, AA037225, BE184816, N23467, AW750094, AI476075, BE764312, M85743, AI446812, AI758576, T32145, BE177013, AA757693, BE712842, BF921651, BE767238, AA853819, BF326140, AI273910, AA279252, AA381186, BE160136, BE244985, AA152260, BE937463, AA508507, D83831, T35966, AA206071, AW753040,</p>

HPDRG92	432	101120 9	1 - 347	15 - 361	AA463528, BF350600, AA853818, AI826048, T10441, BF902633, T30084, AA664662, AA296747, T32012, BF081538, AU127062, BF351535, AA294865, AW194536, AW389667, BE154256, BE764183, BE764188, R71621, AA339945, AI590860, BE764172, BE764166, R71117, AA847057, BF081731, BF355957, AL121085, BE764191, AW273705, U29165, U22431, AF207602, AF207601, AF208487, AF050127, AL137129, U85044, AB018398, X72726, X95580, AF003695, U59496, AF057308, AB013746, Y09507, Y09085, AF004155, AF050124, AJ227916, AF050123, AF004152, AF050122, AF004149, AF050121, AF004148, AL049780, AC007055, AF050126, AF050125, AF004154, AL133057, AF154121, AL122049, AL162062, AF218253, X56530, AL049423, AL133607, E04257, AL133015, E12888, AL133053, AL133049, AF119894, AL133081, AL122101, E13998, AK026442, AL133076, AL133608, W47022, AA504372, AA714314, AA091910, D11752, AA788713, T10413, T10820, AI453464, AI684085, AI933855, and AW439013.
HPDRG92	432	101120 9	1 - 347	15 - 361	AL529603, T96738, R90778, H47758, AL529602, R94024, AA323896, AL523542, AL525995, NS1812, AB033116, and AK001713.
HOFMQ81	433	101130 3	1 - 915	15 - 929	AL119457, AL121894, Y11587, AF118064, I48979, AF113690, AF130104, AF130082, AF130105, S78214, AF116646, AL110221, AF130075, AF113691, AF090934, AX046603, I89947, AF116602, AL389978, AF116639, AB048953, AF113694, AF118070, AL133640, AL157431, AB049758, AF078844, AL050393, AF113013, AF130059, AL117457, AL133016, AF116644, A08916, AF125949, AF111847, S68736, AL133606, AL359596, AF090900, AR079032, AF116691, AL359601, AF090943, AJ242859, AF116688, AF116631, AL110196, AF218014, AL390167, AL080060, AF138861, L31396, L31397, AF104032, AL049938, AL442072, AL117460, AL050146, AF119878, AL137527, AL162083, AF113689, AF130092, AF090903, AF090901, AL096744, A93016, AL42082, AL049452, I89931, AR059958, X84990, AX019230, AF113676, AL080124, AF113677, AL050277, AL122093, AL133093, AB048964, AX019229, A08913, AK026608, AK026045, AK026865, AB019565, AF090896, AK000212, AL050149, U42766, AL050116, AF106862, AB041801, AK025339, AK025084, AL133075, AK025772, AL122050, AK026741, AF119875, AL050108, AK026855, AF219137, AL133080, E07361, AF113699, AK025092, AB047615, AL049314, AK025958, AF158248, AF113019, AL162006, I48978, AL133565, AL389982, AL122123, AF017152, AL137459, E03348, AL359618, AF146568, AB050510, AK026583, AL049466, AF111851, AL133557, AK027096, AF119899, AK026744, AF119909, AK026784, AX006092, AL117585, AF116649, AL080137, AL122121, AL137557, AF207829, AK000618, AL050138, AL359941, X63574, Y11254, AF017437, X82434, AK026504, AJ000937, AF125948, AF091084, U91329, AK026533, Y16645, AK000137, AF314091, AK026452, AK026647, AK000083, AL137283, AB048954, AJ238278, AK026927, AL117394, AK000445, AL353940, AF177401, AF079765, A65341, AL359615, AL049430, AK026592, AB051158, AR087170, AL110225, AK024538, AF242189, AK027113, AK000652, AL049300, AK026532, AK026533, AK025484, AF116610,

HOFNF27	434	101131 5	1 - 748	15 - 762	AL133560, AR011880, AF097996, AK025391, AK025491, AK026534, AL137550, AK026086, E02349, A08910, AX042059, AK026542, E07108, AB052191, AL049464, AL117435, A08912, AX026824, AX026823, A58524, A58523, A77033, A77035, AF067728, AK027204, AK026528, A03736, AB047904, AK000432, AF225424, AK026959, AF271350, AL133258, AF130099, AF130066, AB034701, AK025967, AF116682, AL117583, AL050024, U00763, AL122098, I33392, AF177336, and AL049382.
					AW665000, AL521066, AA089566, Z44690, AL514786, AIG78039, AU131437, BE167328, AA926992, AA249468, AW971745, AW804686, AW392670, BE695785, AW861944, AW604723, AW877209, AW858526, AW858525, AL119483, AL119319, AL119324, AL119355, U46349, AL119457, BE705903, BE705906, AW577135, AW372827, AW384394, AW861889, AW858455, AL119497, AW363220, Z99396, AL119484, AL119363, AL119391, U46350, U46347, U46351, U46341, AL119443, BF868687, AL119444, AL119341, AL134538, AL042984, BF868697, AW604726, AL119439, BF868684, BE705905, AL119522, AL119396, U46346, AL043011, AL119335, AL037205, AL134533, AL134920, AL134524, BE705904, AL119399, AL043029, AL119496, AL142137, AL134531, AL119418, AW861954, U46345, AL042614, AL043033, AL042544, AL042965, AL042975, AL042450, AL042542, AL043019, AL043003, AL119464, AL042551, U90716, Y07593, AP000967, AF200465, AP001670, AL163204, AF124598, AF109645, Y10320, AF109646, Y11929, U90715, AF169366, AF242865, AF242864, AF169365, AF169364, AB026436, AR060234, AX046357, AR054110, AJ251859, AX030435, A81671, AJ279014, AR066494, AR069079, and AR043113.
HOFND52	435	101131 6	1 - 591	15 - 605	AW971745, AW392670, AW804686, AW604723, BE695785, AW861944, AW858526, AW858525, AL119443, AW384394, AW861889, AW858455, AW363220, BE705903, BE705906, AW577135, U46347, AL134533, AL119363, AW372827, AL119497, AL119319, U46346, AL119396, AL119457, AW877209, AL119324, BE705905, AL119484, U46341, AW604726, Z99396, AL119341, AL119391, AL119355, U46350, U46351, U46349, BF868697, AL119444, AL119483, AL119439, AL119335, AL119496, BE705904, AL134518, AL119399, BF868687, AL134538, BF868684, AL119522, AW861954, AL037205, U46345, AL042965, AL042614, AL134527, AL119418, AL042542, AL042450, AL043003, AL042975, AL042970, AL043029, AL042544, AL043019, AL042984, AL142134, AL042551, AL119488, AL119464, AB026436, AJ251859, AX030435, AJ279014, AR054110, A81671, AR060234, AX046357, AJ251089, AR066494, AR069079, and AR080280.
HOFNL96	436	101132 1	1 - 563	15 - 577	
HOFNF53	437	101133 2	1 - 2384	15 - 2398	AF228061, AX014812, AF228060, AF228059, and AX014811.
HOFMU61	438	101136	1 - 1296	15 - 1310	



HOFOF35	439	101149 9	1 - 731	15 - 745	15 - 915	AL520120, AU120794, AU142824, AU142738, AL524453, AL516006, AL531636, AL528608, AU135451, AW960802, BE255275, AF034175, BE251549, BE267417, BE787485, BG260926, BE866693, BF204561, AW402296, AW879901, AA130293, BE783678, AL503177, BE890412, AA026038, BF933394, AW995929, AF061738, AK022055, S63367, and AC006160.
HULF37	440	101153 7	1 - 901	15 - 915	AL528378, AU129753, AL523012, AL523055, BE881260, AL536136, BE379029, AI936124, AW157228, BF036785, BE907027, AI246564, BF684205, AW163233, BF032696, AW167783, BF115257, BE908959, BF206407, AW966037, BF058749, BE905304, AA873153, AI814898, AI653634, BF033796, AW167930, BE908776, BE612522, AL523011, BE312284, BE315082, AL528507, BE260964, AA657525, AA846556, AA581813, AW170322, AI675942, AU126752, AW073723, AW439343, AL536135, BE294834, AA905511, BF983613, BE433893, AU126776, BE271931, BE563428, BF033808, AA565888, AU151827, AU126743, AA434893, AU126776, AU126631, BE048096, AI288014, AI349513, AA605069, AA947686, AI354687, AI3444761, AA968896, BG110190, BF036720, AA837515, AU126400, BF035189, AW473570, AA857612, AW243736, AI350498, AI363381, AA677118, AA670096, AA427949, AU151595, BE350678, AW182617, AI560969, AU129491, AV699411, AA622740, AA444088, AV700357, AU283102, AI689102, AA569487, AI126127, AA554302, AI653485, AV745161, AI156918, AI354641, AA856700, BE613105, AI358308, AA071541, AI243590, AI546836, AW005289, W76149, AA244008, AI422558, AA775927, AA063086, AA650016, W72586, AW001140, AV698390, AA550916, N92857, BE904189, AI546843, AA773276, AI302461, AL520795, W25583, AI127036, AU126711, AA037265, AA340693, AI185816, AA160689, AI516917, AA885582, BE866790, AA155767, AI904529, AI564903, AA659174, AW474443, AI051519, AA121966, AI494596, AI689031, BF743597, AI351481, BF743584, AI814052, AA428047, BF155259, BF761628, H99387, AA921901, BF799202, AI970995, AU126531, AA687198, AI520794, AA635808, AA126065, AI972309, AW170212, AA928381, AA634687, BF799608, AI784469, AA065175, AA232437, BF114899, AV702749, BE765150, AI758612, AA090244, AI363998, AI868371, AW150636, AI869410, BF743525, AA092613, N31429, BF689044, AA065174, AI566999, BF155224, C18016, AA525365, AI924384, BF743523, AA528748, AI784640, T28360, BE694608, AA095763, T34666, W19684, AI184108, AI536700, BF688256, AI214861, AA069147, AA834416, BF743622, AA340127, BF063999, AI819683, AA232438, BG055557, BG153008, N90030, AA075883, N88126, AA612817, BF434087, T50502, AA330721, BF743541, AA365183, AA092202, AV697304, AI364889, AI699968, AA428951, AI360411, BG222691, AI908085, AA292397, BF330544, AA630996, R72795, AA155766, AA095477, AA402271, AW366864, AA236707, AW371105, AA720944, BE832973, AI633889, T50637, AI989937, AA055038, AI121965, BE171278, W04805, AA069239, AW496797, T54753, AW799852, AX014110, X55110, I15236, M94250, D10604, AX015411, E04786, M69148, E12896, M34094, AB036426, M34327, M35833, AB025023, M196652, M34328, M61754,	

HOFME75	441	101160 7	1 - 1010	15 - 1024	AA063136, and AA155768. AL523165, AL515551, AL537265, AL520260, AL531902, AL533764, AL534019, AU123661, AL538449, BF725283, BE271314, BE744146, BE314972, BE514630, AU124220, BF980436, AW239518, BE745207, BE909798, BE266432, BE313375, BF984861, AW162833, AW629964, AW239222, BE019917, AI144171, BF515784, AW239501, BE745633, AL531408, BF528125, BF984074, BF983109, AW238810, AW675333, BE887799, BG165843, AW239055, BF036003, BF688322, BF036176, BF314875, AA243255, AW068310, BG253491, AW750829, BG120518, AA114212, AA227340, AL528807, AA488270, BF036567, D83174, AB044778, AB044779, AB010273, X61598, M69246, X60676, J05609, AF100413, D12905, AB044780, AB044781, AF202899, AF178675, and D12906.
HOPKO74	442	101160 8	1 - 2246	15 - 2260	AL515550, AL520259, AL523164, AL525036, AL534019, AL537265, AL538449, AL533764, AL520260, AL531902, AL515551, AL523165, AL525035, BE379543, AU123661, BE741174, BE742224, BE741994, BE741741, BE742340, BF725283, BE740889, AI635814, AU124220, BE744987, BE744146, BE747153, BE744655, BG253433, BE745129, BF343576, BF033082, BF980436, BE877236, BF038485, BF338799, BE906099, AW151151, BF037069, BE272242, AI336307, BE898327, BE378159, BG116704, BE514864, BE314972, BG120943, AW239501, BE304338, BE514630, BE909798, BE271314, BE742968, AW162833, BF984861, AL038803, AI754209, BG028129, BE272350, AW239518, AA114175, AL038804, BF128026, BE868537, AI752340, AW239222, BE266432, AA641717, AA203447, BE620098, BE745207, BE313375, AW629964, AA176157, AA191544, W68054, AW629878, BE207655, AA454490, BE067208, BE221309, AA315647, AW364803, BE910175, BE910339, AA101234, AA565572, BF684840, AI049605, W92720, AI146365, BE019917, AA305265, AI863019, AA293056, W58348, AA565247, AW162724, AW338826, AI141482, AA987259, AW087936, AI954500, BF688322, AW517393, AL531408, AI755228, AA723072, AW069806, AI336074, BF528125, AI268308, BF984074, AI366790, AI144171, AI811037, AW150385, AI922017, AI191471, AA514403, AA733081, AA565401, AA873716, BF983109, R71440, AI753928, AI927706, AI131532, BF036219, BF695480, AA678650, AW368086, T57921, AI753517, AW238810, AA565403, AI332734, AW339060, AI884409, BF515784, AW950609, AI204058, AW955479, AA651706, AI291428, AI204251, AI479680, AI825961, AI829909, AW192557, AW087929, AA010142, BF983082, AI361591, AA025341, AA070470, AI635486, AI146535, AI355374, AI752341, AI190787, AW674813, AW675333, AI185961, BF314875, AA130318, T35713, BE745633, AA995846, W58473, AI890829, BF739075, AI690876, AA507465, AW304986, BG253491, AI827289, AA315478, AA889243, AI097500, AA564102, AI249028, BE887799, AW029503, AI401571, AA029192, AA293371, AI499166, AW614931, AA010141, AI589642, BE328767, AW005099, AA719959, AL531407, AA206070, AA971287, AW274613, BE206417, AA457512, AA219278, AA679718, AA777200, AI144387, AA613547, AI313366, AI874203, AV722770, AW176048, BF308081, W96392, W70032, AA974224, AI829452, AW239055,

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HCBA51	443	101175 5	1 - 461	15 - 475	BF314829, AV712857, AW135421, AV756013, AV711642, AV706459, BE389248, AV762758, BE298463, AW873404, AV761365, BF974361, AV694674, BE385529, AV712150, AA035773, BE896094, BG028321, AA056334, AV712521, AA229819, AA314724, BF184153, BF244433, C14341, W68503, AA401339, BE378847, BF314729, AV751410, AV761330, BE378783, C14299, AV713770, BG059393, C14483, C14221, AV717163, AA308273, C14336, C14385, BE019161, AV709556, AV693316, AV764302, F21255, C13986, AV712395, BF696046, F24961, AA328328, BG230851, AW440694, AA135681, BE395394, W68387, BE730209, AA228680, AW009033, AA747774, C14434, BF941581, A1223384, AA622053, BF244539, AA010723, A1202387, A1073496, W07371, A1208241, AA533423, BE787471, A1223417, AV726474, AV728017, AV728046, F24716, AV726003, AW960673, AA853968,

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HDHEB13	444	101177 3	1 - 1157	15 - 1171	<p>AI916779, AW304481, AA732948, AI288625, AW965223, AA443244, AA194106, W79527, BF511014, AI038644, AA443206, W93527, AA346195, W79559, BE296248, BE269743, AX039965, and AX039975.</p>
HDTMG36	445	101182 1	1 - 453	15 - 467	<p>BF972066, BF245607, AV703472, AV682014, AL038000, AV721711, AV728175, BF219386, AI133475, BF594923, BE837022, F22763, BF370629, BE830051, BF679794, BF693415, BE829971, AA528724, BE830055, AI479313, BE830057, F28205, BE717593, BE830025, BE836965, AA101196, BF973420, BE830061, BE830020, BE830059, BE818317, AA639940, AV734206, BE829966, AA501447, BE829985, BE830033, BE674258, AW772601, AA558672, BE837016, BE829982, BE830028, BE829988, AA082523, F36038, BE818328, BE836968, BE717560, AA603906, BE717609, F25953, BF975287, BE830032, AA886834, BE795191, F20554, BE830031, AI459928, AA747245, AA722455, AI417855, AA888508, BF837014, AI126653, AW102672, AI150214, AI479343, AW510846, BF109983, AA248555, AA559212,</p>

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